



TUGAS AKHIR - KS184822

**ANALISIS PERBANDINGAN SKOR HASIL UJIAN
TULIS ANTAR PTN-BH DENGAN MENGGUNAKAN
*MULTIVARIATE ANALYSIS OF VARIANCE***

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**PROGRAM STUDI SARJANA
DEPARTEMEN STATISTIKA
FAKULTAS SAINS DAN ANALITIKA DATA
INSTITUT TEKNOLOGI SEPULUH NOPEMBER
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FINAL PROJECT - KS184822

**COMPARATIVE ANALYSIS OF INTER PTN-BH TEST
WRITTEN SCORE RESULTS USING MULTIVARIATE
ANALYSIS OF VARIANCE**

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SURABAYA 2020**

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ANALISIS PERBANDINGAN SKOR HASIL UJIAN TULIS ANTAR PTN-BH DENGAN MENGGUNAKAN *MULTIVARIATE ANALYSIS OF VARIANCE*

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ANALISIS PERBANDINGAN SKOR HASIL UJIAN TULIS ANTAR PTN-BH DENGAN MENGGUNAKAN MULTIVARIATE ANALYSIS OF VARIANCE

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Abstrak

Sejak tahun 2019, seleksi masuk perguruan tinggi dapat dilakukan berdasarkan skor hasil ujian tulis yang telah dilakukan sebelum pendaftaran. Peserta dapat mengikuti ujian maksimal sebanyak dua kali dan dapat menggunakan nilai tertingginya dalam mendaftar masuk perguruan tinggi pada program studi yang diinginkan. Hal ini menyebabkan persaingan nilai yang masuk ke PTN semakin ketat, termasuk PTN-BH. Tujuan penelitian ini adalah untuk mengidentifikasi karakteristik PTN-BH tujuan dan gelombang ujian berdasarkan skor setiap mata uji hasil ujian tulis dan untuk menguji perbandingan skor setiap mata uji hasil ujian tulis menurut PTN-BH tujuan dan gelombang ujian menggunakan analisis multivariat berupa Multivariate Analysis of Variance (MANOVA). Faktor-faktor yang digunakan adalah PTN-BH tujuan dan gelombang ujian. Variabel yang digunakan ialah skor setiap mata uji hasil ujian tulis. Pada jenis ujian saintek terdapat perbedaan skor antar PTN-BH tujuan, gelombang ujian, dan interaksi sedangkan pada jenis ujian soshum hanya terdapat perbedaan skor antar PTN-BH tujuan. Institut Teknologi Sepuluh Nopember menjadi PTN-BH yang paling memengaruhi atau yang memiliki rata-rata skor tertinggi pada jenis ujian saintek maupun soshum. Rata-rata skor gelombang 1 lebih rendah daripada gelombang 2 pada jenis ujian saintek sedangkan rata-rata skor kedua gelombang sama pada jenis ujian soshum.

Kata Kunci : Gelombang Ujian, MANOVA, PTN-BH, Ujian Tulis

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COMPARATIVE ANALYSIS OF INTER PTN-BH TEST WRITTEN SCORE RESULTS USING MULTIVARIATE ANALYSIS OF VARIANCE

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Abstract

Since 2019, selection for admission to college can be carried out based on written test scores that have been conducted prior to registration. Participants can take the exam twice and can use their highest score to register for college in the desired study program. This causes competition to enter PTN increasingly fierce, including PTN-BH. The purpose of this study are to identify the characteristics of PTN-BH and test groups based on scores of each subject of written test results and to test the comparison of scores of each subject written test results according to PTN-BH and test groups using Multivariate Analysis of Variance (MANOVA). The factors are PTN-BH and test groups. The variable is the score of each subject in the written test results. In the type of science test there are differences in scores between PTN-BH, test groups, and interactions while in the type of social test there are only differences in scores between PTN-BH. Institut Teknologi Sepuluh Nopember has the highest average score on the types of science test and social test. The average score of group 1 is lower than group 2 on the type of science test while the average score of the two groups is the same on the type of social test.

Keywords: *MANOVA, PTN-BH, Test Groups, Written Test*

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BAB I

PENDAHULUAN

1.1 Latar Belakang

Undang-Undang nomor 20 tahun 2003 tentang sistem pendidikan nasional menyebutkan bahwa pendidikan tinggi merupakan jenjang pendidikan setelah pendidikan menengah yang mencakup program pendidikan diploma, sarjana, magister, spesialis, dan doktor. Perguruan tinggi berkewajiban menyelenggarakan pendidikan, penelitian, dan pengabdian kepada masyarakat. Sesuai UU no. 12 tahun 2012 tentang perguruan tinggi, Perguruan Tinggi Negeri yang selanjutnya disingkat PTN adalah perguruan tinggi yang didirikan dan/atau diselenggarakan oleh Pemerintah. Peraturan Pemerintah no. 26 tahun 2015 menjelaskan bahwa perguruan tinggi negeri yang didirikan oleh pemerintah yang berstatus sebagai badan hukum publik yang otonom disebut PTN Badan Hukum (PTN-BH). Perguruan tinggi yang berstatus sebagai PTN-BH antara lain Universitas Indonesia (UI), Universitas Gadjah Mada (UGM), Institut Teknologi Bandung (ITB), Institut Pertanian Bogor (IPB), Universitas Sumatera Utara (USU), Universitas Pendidikan Indonesia (UPI), Universitas Airlangga (Unair), Universitas Diponegoro (Undip), Universitas Padjadjaran (Unpad), Universitas Hassanuddin (Unhas), dan Institut Teknologi Sepuluh Nopember (ITS). Sesuai Siaran Pers Kemenristekdikti 2019 (PTN BH Harus Bisa Jadi *Leading University*), harapan publik pada PTN BH yaitu menjadi *Leading University* di Indonesia dan menjadi pemacu peningkatan daya saing dan kesejahteraan. Pada Siaran Pers Kemenristekdikti 2018 (PTN-BH Diharapkan Bersinergi Hadapi Persaingan Global), PTN-BH agar bisa bersinergi meningkatkan kualitas Sumber Daya Manusia (SDM), riset, dan inovasi untuk mampu bersaing di kelas dunia. Beberapa program strategis yang harus dijalankan yaitu penguatan riset dan inovasi, pengembangan sumber daya, implementasi revolusi industri 4.0, dan penguatan *excellent teaching* dan *learning*.

Peraturan menristekdikti no. 60 tahun 2018 menyebutkan bahwa salah satu jalur masuk PTN adalah melalui ujian tulis. Menurut Arikunto (2009), sebelum memasuki suatu tingkat sekolah (institusi), calon siswa (peserta didik) itu dinilai dahulu kemampuannya sehingga dapat diketahui apakah kelak ia akan mampu mengikuti pelajaran dan melaksanakan tugas-tugas yang akan diberikan kepadanya. Sejak tahun 2019, sesuai Siaran Pers Kemenristekdikti 2019 (Skema Baru Seleksi Masuk PTN 2019), seleksi masuk perguruan tinggi dapat dilakukan berdasarkan skor hasil ujian tulis yang telah dilakukan sebelum pendaftaran dan dapat ditambah dengan kriteria lain sesuai dengan yang ditetapkan perguruan tinggi yang bersangkutan. Ujian tulis terdiri dari Tes Potensi Skolastik (TPS) dan Tes Kompetensi Akademik (TKA). Peserta ujian tulis 2019 maksimal mengikuti tes sebanyak dua kali dan dapat menggunakan nilai tertingginya dalam mendaftar seleksi masuk perguruan tinggi pada program studi yang diinginkan. Hal ini menyebabkan persaingan nilai yang masuk ke PTN semakin ketat, termasuk PTN-BH. Menurut Uly (2018) melalui okezone.com dan Siaran Pers Kemenristekdikti 2019 (168.742 Peserta Lulus SBMPTN 2019 di 85 PTN se-Indonesia), pada seleksi masuk perguruan tinggi jalur ujian tulis tahun 2018 dan 2019, delapan PTN-BH yaitu ITB, UI, UGM, ITS, Unpad, Undip, Unair, dan IPB mendapatkan skor tertinggi untuk prodi saintek dan tujuh PTN-BH yaitu UI, ITB, UGM, ITS, Undip, Unpad, dan Unair mendapatkan skor tertinggi untuk prodi soshum, sehingga PTN-BH diberikan insentif dari kemenristekdikti untuk dapat menentukan jumlah mahasiswa hingga 50% yang diterima melalui jalur mandiri 2020. Ketatnya persaingan sejalan dengan tujuan penyelenggaraan ujian tulis 2019 yaitu untuk menjangkau calon mahasiswa yang berkualitas serta sesuai perkembangan teknologi informasi di era digital sehingga diharapkan mahasiswa baru yang diterima melalui seleksi masuk perguruan tinggi dengan ujian tulis adalah mahasiswa yang berkualitas sehingga dapat berkontribusi dalam mengembangkan SDM perguruan tinggi, khususnya PTN-BH.

Perbedaan PTN tujuan dan pilihan gelombang ujian tulis peserta diduga dapat menimbulkan perbedaan rata-rata skor hasil ujian tulis sehingga menarik untuk diteliti. Penelitian ini terkait perbandingan skor hasil ujian tulis antar PTN-BH tujuan dengan gelombang ujian pada jenis ujian tulis saintek dan soshum. Variabel yang digunakan ialah skor setiap mata uji hasil ujian tulis yaitu TPS (penalaran umum, pengetahuan kuantitatif, pengetahuan dan pemahaman umum, dan kemampuan memahami bacaan dan menulis), TKA saintek (matematika, fisika, kimia, dan biologi), dan TKA soshum (matematika, geografi, sejarah, sosiologi, dan ekonomi). Faktor-faktor yang diduga menimbulkan perbedaan rata-rata skor hasil ujian tulis adalah PTN-BH tujuan dan gelombang ujian. Terdapat beberapa faktor dan lebih dari satu variabel, maka penelitian ini dapat menggunakan pendekatan analisis multivariat berupa *Multivariate Analysis of Variance* (MANOVA). Analisis multivariat adalah analisis beberapa variabel dalam satu hubungan atau serangkaian hubungan (Hair, 2010). MANOVA dapat diartikan sebagai metode statistik untuk mengeksplorasi hubungan di antara beberapa variabel independen yang berjenis kategorikal yang berskala nominal ataupun ordinal dengan beberapa variabel dependen yang berjenis numerikal yang berskala interval atau rasio (Santoso, 2012). Penelitian dengan pendekatan metode MANOVA telah dilakukan oleh Rinjani (2016), Maiscka (2016), dan Rizqi (2019). Rinjani (2016) melakukan komparasi prestasi akademik mahasiswa berdasarkan jalur masuk, jenis kelamin, dan karakteristik sekolah. Maiscka (2016) melakukan penelitian mengenai kemampuan bahasa inggris mahasiswa berdasarkan jalur seleksi masuk ITS. Rizqi (2019) melakukan analisis perbandingan skor ujian tulis berbasis cetak, android, dan komputer.

1.2 Rumusan Masalah

Berdasarkan uraian latar belakang, dapat diambil permasalahan sebagai berikut.

1. Bagaimana karakteristik PTN-BH tujuan dan gelombang ujian berdasarkan skor setiap mata uji hasil ujian tulis?

2. Bagaimana perbandingan skor setiap mata uji hasil ujian tulis menurut PTN-BH tujuan dan gelombang ujian?

1.3 Tujuan

Berdasarkan rumusan masalah, dapat diketahui tujuan dari penelitian ini adalah sebagai berikut.

1. Mengidentifikasi karakteristik PTN-BH tujuan dan gelombang ujian berdasarkan skor setiap mata uji hasil ujian tulis.
2. Menguji perbandingan skor setiap mata uji hasil ujian tulis menurut PTN-BH tujuan dan gelombang ujian.

1.4 Manfaat

Penelitian ini diharapkan dapat memberikan gambaran kualitas calon mahasiswa baru, khususnya bagi PTN-BH. Manfaat penelitian ini bagi peneliti adalah dapat menambah wawasan bagi peneliti dalam pembangunan dan penerapan ilmu statistika dalam fokus bidang multivariat.

1.5 Batasan Masalah

Permasalahan yang dibahas pada penelitian ini hanya mencakup skor setiap mata uji peserta ujian tulis 2019 yang memilih PTN-BH yang sama pada kedua pilihan. Analisis dilakukan pada masing-masing jenis ujian yaitu saintek dan soshum.

BAB II

TINJAUAN PUSTAKA

2.1 Statistika Deskriptif

Statistika deskriptif merupakan metode-metode yang berkaitan dengan pengumpulan dan penyajian suatu gugus data sehingga memberikan informasi yang berguna. Statistika deskriptif memberikan informasi hanya mengenai data yang dimiliki dan sama sekali tidak menarik inferensia atau kesimpulan apapun tentang gugus data induknya yang lebih besar. Statistika deskriptif terbagi menjadi dua yaitu ukuran pemusatan data dan ukuran penyebaran data. Ukuran pemusatan data antara lain yaitu rata-rata, median serta modus, sedangkan ukuran-ukuran penyebaran data antara lain adalah varians, standar deviasi, *range*, dan sebagainya (Walpole, 1995). Selain menggunakan ukuran pemusatan dan penyebaran, statistika deskriptif juga bisa dilakukan dengan memvisualisasikan data dalam bentuk grafik atau diagram. Jenis grafik atau diagram yang sering digunakan di antaranya adalah histogram, diagram batang (*bar chart*), diagram lingkaran (*pie chart*), dan *boxplot*.

2.2 Analisis Multivariat

Analisis statistika multivariat adalah analisis statistika yang dikenakan pada data yang terdiri dari banyak variabel dan antar variabel saling berkorelasi (Johnson & Wichern, 2007).

2.3 Asumsi Analisis Multivariat

2.3.1 Pengujian Dependensi

Uji dependensi digunakan untuk mengetahui ada atau tidaknya hubungan atau korelasi antar variabel karena antar variabel harus saling berkorelasi agar dapat dianalisis dengan analisis multivariat. Uji dependensi dalam kasus multivariat menggunakan uji *Bartlett Sphericity*. Jika variabel y_1, y_2, \dots, y_p bersifat saling bebas (*independen*), sehingga matriks korelasi antar variabel sama dengan matriks identitas (Morrison, 2005).

Statistik uji pada uji *Bartlett Sphericity* dituliskan pada rumus hitung (2.1) dengan hipotesis sebagai berikut.

Hipotesis :

H_0 : $\mathbf{R} = \mathbf{I}$ atau tidak terdapat korelasi antar variabel.

H_1 : $\mathbf{R} \neq \mathbf{I}$ atau terdapat korelasi antar variabel.

Statistik uji :

$$\chi^2 = - \left(n - 1 - \frac{2p + 5}{6} \right) \ln |\mathbf{R}| \quad (2.1)$$

Keterangan :

n : Banyaknya observasi.

p : Banyaknya variabel.

$|\mathbf{R}|$: Nilai determinan dari matriks korelasi.

Daerah kritis :

Tolak H_0 jika $\chi^2 > \chi^2_{(\frac{1}{2}p)(p-1)}(\alpha)$ atau jika $p\text{-value} < \alpha$.

2.3.2 Pemeriksaan Distribusi Normal Multivariat

Kepadatan normal multivariat adalah generalisasi dari kepadatan normal univariat untuk p lebih dari dua dimensi (Johnson dan Wichern, 2007). Variabel y_1, y_2, \dots, y_p dikatakan berdistribusi normal multivariat dengan parameter $\boldsymbol{\mu}$ dan $\boldsymbol{\Sigma}$ jika mempunyai *probability density function* (PDF) pada persamaan (2.2).

$$f(y_1, y_2, \dots, y_p) = \frac{1}{(2\pi)^{\frac{p}{2}} |\boldsymbol{\Sigma}|^{\frac{1}{2}}} e^{-\frac{1}{2}(\mathbf{y}-\boldsymbol{\mu})' \boldsymbol{\Sigma}^{-1}(\mathbf{y}-\boldsymbol{\mu})} \quad (2.2)$$

Jika variabel y_1, y_2, \dots, y_p memiliki PDF seperti persamaan (2.2), dengan p menunjukkan banyaknya variabel, maka y_1, y_2, \dots, y_p mengikuti distribusi $N_p(\mathbf{0}, \boldsymbol{\Sigma})$ dan $(\mathbf{y} - \boldsymbol{\mu})' \boldsymbol{\Sigma}^{-1}(\mathbf{y} - \boldsymbol{\mu})$ berdistribusi χ_p^2 (Rencher, 2002). Berdasarkan sifat ini, pemeriksaan distribusi normal multivariat dapat dilakukan dengan cara membuat *Q-Q plot* atau *chi-square plot* dari jarak mahalalanobis (d_j^2) pada rumus (2.3).

$$d_j^2 = (\mathbf{y}_j - \bar{\mathbf{y}})' \mathbf{S}^{-1}(\mathbf{y}_j - \bar{\mathbf{y}}) \quad (2.3)$$

$j = 1, 2, \dots, n$ sebanyak observasi.

Menurut Johnson dan Wichern (2007), tahapan dalam membuat *chi-square plot* adalah sebagai berikut.

1. Mengurutkan jarak mahalanobis (d_j^2) mulai dari terkecil hingga terbesar ($d_1^2 \leq d_2^2 \leq \dots \leq d_n^2$).
2. Menentukan nilai persentil atas distribusi *chi-square* dengan derajat bebas p pada rumus (2.4).

$$q_{c,p} \left(\left(j - \frac{1}{2} \right) / n \right) = \chi_p^2 \left(\left(n - j + \frac{1}{2} \right) / n \right) \quad (2.4)$$

3. Membuat *scatter plot* antara d_j^2 dengan $q_{c,p} \left(\left(j - \frac{1}{2} \right) / n \right)$.

Scatter plot yang terbentuk dikatakan berdistribusi normal multivariat apabila membentuk menyerupai garis lurus. Selain dengan *plot*, pengujian asumsi normal multivariat juga dapat dilakukan dengan pengujian hipotesis koefisien korelasi antara d_j^2

dengan $q_{c,p} \left(\left(j - \frac{1}{2} \right) / n \right)$ seperti pada rumus (2.5).

Hipotesis :

H_0 : Data berasal dari populasi yang berdistribusi normal multivariat.

H_1 : Data tidak berasal dari populasi yang berdistribusi normal multivariat.

Statistik Uji :

$$r_Q = \frac{\sum_{j=1}^n (y_{(j)} - \bar{y})(q_{(j)} - \bar{q})}{\sqrt{\sum_{j=1}^n (y_{(j)} - \bar{y})^2} \sqrt{\sum_{j=1}^n (q_{(j)} - \bar{q})^2}} \quad (2.5)$$

Daerah kritis :

Gagal tolak H_0 jika r_Q mendekati nilai -1 atau 1, atau jika $p\text{-value} < \alpha$.

2.3.3 Pengujian Homogenitas Matriks Varians Kovarians

Menurut Rencher (2002), matriks varians kovarians (Σ) terdiri dari varians dan kovarians dari $y_{j1}, y_{j2}, \dots, y_{jp}$ pada y_j manapun dapat dituliskan pada persamaan (2.6) berikut.

$$\text{cov}(y_j) = \Sigma = \begin{pmatrix} \sigma_{11} & \sigma_{12} & \cdots & \sigma_{1p} \\ \sigma_{21} & \sigma_{22} & \cdots & \sigma_{2p} \\ \vdots & \vdots & & \vdots \\ \sigma_{p1} & \sigma_{p2} & \cdots & \sigma_{pp} \end{pmatrix} \quad (2.6)$$

Masing-masing n vektor observasi (baris) memiliki matriks kovarians yang sama. Uji homogenitas matriks varians kovarians yang digunakan adalah uji *Box's M* dengan pendekatan distribusi F seperti pada rumus (2.7).

Hipotesis :

$H_0: \Sigma_1 = \Sigma_2 = \dots = \Sigma_g = \Sigma$ atau matriks varians kovarians homogen.

H_1 : minimal ada satu pasang Σ_ℓ yang berbeda, $\ell = 1, 2, \dots, g$ atau matriks varians kovarians heterogen.

Statistik uji:

$$\begin{aligned} \text{Jika } c_2 > c_1^2, F &= -2b_1 \ln M \\ \text{Jika } c_2 < c_1^2, F &= -\frac{2a_2 b_2 \ln M}{a_1(1+2b_2 \ln M)} \end{aligned} \quad (2.7)$$

dengan

$$\begin{aligned} c_1 &= \left[\sum_{\ell=1}^g \frac{1}{v_\ell} - \frac{1}{\sum_{\ell=1}^g v_\ell} \right] \left[\frac{2p^2 + 3p - 1}{6(p+1)(g-1)} \right] \\ c_2 &= \frac{(p-1)(p+2)}{6(k-1)} \left[\sum_{\ell=1}^g \frac{1}{v_\ell^2} - \frac{1}{(\sum_{\ell=1}^g v_\ell)^2} \right] \\ a_1 &= \frac{1}{2}(k-1)p(p+1); a_2 = \frac{a_1+2}{|c_2-c_1^2|} \\ b_1 &= \frac{1-c_1-\frac{a_1}{a_2}}{a_1}; b_2 = \frac{1-c_1+\frac{2}{a_2}}{a_2} \end{aligned}$$

$$\ln M = \frac{1}{2} \sum_{\ell=1}^g v_{\ell} \ln |\mathbf{S}_{\ell}| - \frac{1}{2} \left(\sum_{\ell=1}^g v_{\ell} \right) \ln |\mathbf{S}_{pooled}|$$

$$\mathbf{S}_{pooled} = \frac{\sum_{\ell=1}^g v_{\ell} \mathbf{S}_{\ell}}{\sum_{\ell=1}^g v_{\ell}}; v_{\ell} = n_{\ell} - 1$$

Keterangan :

Σ : Matriks varians kovarians.

g : Banyaknya kategori faktor.

n_{ℓ} : Ukuran sampel untuk kategori ke- ℓ .

p : Banyaknya variabel.

\mathbf{S}_{ℓ} : Matriks kovarians pada sampel kategori ke- ℓ .

\mathbf{S}_{pooled} : Matriks kovarians gabungan.

Daerah kritis :

Gagal tolak H_0 jika $F < F_{\alpha_1, \alpha_2}(\alpha)$ atau jika $p\text{-value} > \alpha$.

2.4 Multivariate Analysis of Variance (MANOVA)

Analisis varians multivariat (MANOVA) adalah teknik analisis yang digunakan untuk membandingkan *mean* dari dua populasi atau lebih untuk kasus univariat random sampel yang diperoleh dari populasi (Morrison, 2005).

2.4.1 MANOVA One-Way

Menurut Johnson dan Wichern (2007), MANOVA *one-way* digunakan untuk menguji apakah ke- g jenis populasi (dari satu populasi yang sama) menghasilkan vektor rata-rata yang sama untuk variabel yang diamati dalam penelitian. Model umum untuk MANOVA *one-way* ditunjukkan pada persamaan (2.8).

$$\mathbf{Y}_{\ell j} = \boldsymbol{\mu} + \boldsymbol{\tau}_{\ell} + \mathbf{e}_{\ell j} \quad (2.8)$$

$$\ell = 1, 2, \dots, g$$

$$j = 1, 2, \dots, n_{\ell}$$

$$\sum_{\ell=1}^g n_{\ell} \boldsymbol{\tau}_{\ell} = 0$$

Vektor $\boldsymbol{\mu}$ merupakan vektor parameter atau rata-rata keseluruhan kategori faktor, $\boldsymbol{\tau}_\ell$ merupakan rata-rata kategori ke- ℓ , dan $\mathbf{e}_{\ell j}$ merupakan variabel random eror yang mengikuti variabel random $N_p(\mathbf{0}, \boldsymbol{\Sigma})$ yang menunjukkan eror pada kategori ke- ℓ dan sampel ke- j dari sejumlah n_ℓ sampel. Berikut hipotesis yang digunakan dalam menguji perbedaan pengaruh faktor terhadap beberapa variabel.

Hipotesis :

$H_0: \boldsymbol{\tau}_1 = \boldsymbol{\tau}_2 = \dots = \boldsymbol{\tau}_g = \mathbf{0}$ atau tidak ada perbedaan rata-rata antar kategori faktor.

H_1 : minimal terdapat satu $\boldsymbol{\tau}_g \neq \mathbf{0}$ atau ada perbedaan rata-rata antar kategori faktor.

Statistik Uji :

$$\Lambda^* = \frac{|\mathbf{W}|}{|\mathbf{B} + \mathbf{W}|} \quad (2.9)$$

Tabel 2.1 Statistik Uji MANOVA *One-Way*

Sumber Variansi	Matriks Jumlah dari Kuadrat dan Hasil Kali (SSCP)	Derajat Bebas
Perlakuan	$\mathbf{B} = \sum_{\ell=1}^g n_\ell (\bar{\mathbf{y}}_\ell - \bar{\mathbf{y}})(\bar{\mathbf{y}}_\ell - \bar{\mathbf{y}})'$	$g - 1$
Residual	$\mathbf{W} = \sum_{\ell=1}^g \sum_{j=1}^{n_\ell} (\mathbf{y}_{\ell j} - \bar{\mathbf{y}}_\ell)(\mathbf{y}_{\ell j} - \bar{\mathbf{y}}_\ell)'$	$\sum_{\ell=1}^g n_\ell - g$
Total	$\mathbf{B} + \mathbf{W} = \sum_{\ell=1}^g \sum_{j=1}^{n_\ell} (\mathbf{y}_{\ell j} - \bar{\mathbf{y}})(\mathbf{y}_{\ell j} - \bar{\mathbf{y}})'$	$\sum_{\ell=1}^g n_\ell - 1$

Statistik uji pada rumus 2.9 merupakan perhitungan Wilks' Lambda dari Tabel 2.1. Distribusinya dapat didekati dengan distribusi F dengan memenuhi kriteria Tabel 2.2.

Tabel 2.2 Distribusi Wilks' Lambda

Banyak Variabel	Banyak Kategori	Distribusi Sampling
$p = 1$	$g \geq 2$	$\left(\frac{\sum n_\ell - g}{g - 1}\right) \left(\frac{1 - \Lambda^*}{\Lambda^*}\right) \sim F_{g-1, \sum n_\ell - g}$
$p = 2$	$g \geq 2$	$\left(\frac{\sum n_\ell - g - 1}{g - 1}\right) \left(\frac{1 - \sqrt{\Lambda^*}}{\sqrt{\Lambda^*}}\right) \sim F_{2(g-1), 2(\sum n_\ell - g - 1)}$
$p \geq 1$	$g = 2$	$\left(\frac{\sum n_\ell - p - 1}{p}\right) \left(\frac{1 - \Lambda^*}{\Lambda^*}\right) \sim F_{p, \sum n_\ell - p - 1}$
$p \geq 1$	$g = 3$	$\left(\frac{\sum n_\ell - p - 2}{p}\right) \left(\frac{1 - \sqrt{\Lambda^*}}{\sqrt{\Lambda^*}}\right) \sim F_{2p, 2(\sum n_\ell - p - 2)}$

Daerah Kritis :

Tolak H_0 jika $F_{hitung} > F_{tabel}$ pada taraf signifikansi α . Dengan pendekatan *chi square* (sampel berukuran besar), tolak H_0 jika $-\left(n - 1 - \frac{(p+g)}{2}\right) \ln \Lambda^* > \chi_{p(g-1)}^2(\alpha)$.

2.4.2 MANOVA Two-Way

MANOVA *two-way* sering dianggap sebagai perpanjangan dari ANOVA *two-way* untuk situasi di mana terdapat dua atau lebih variabel dependen. Tujuan utama dari MANOVA *two-way* adalah untuk memahami jika ada interaksi antara dua variabel independen pada dua atau lebih variabel dependen. Menurut Johnson dan Wichern (2007) model umum untuk MANOVA *two-way* ditunjukkan pada persamaan (2.10).

$$Y_{\ell kr} = \mu + \tau_\ell + \beta_k + \gamma_{\ell k} + e_{\ell kr} \quad (2.10)$$

$$\ell = 1, 2, \dots, g$$

$$k = 1, 2, \dots, f$$

$$r = 1, 2, \dots, n$$

$$\sum_{\ell=1}^g \tau_\ell = \sum_{k=1}^f \beta_k = \sum_{\ell=1}^g \gamma_{\ell k} = \sum_{k=1}^f \gamma_{\ell k} = 0$$

Vektor μ merupakan rata-rata keseluruhan kategori faktor, τ_ℓ merupakan rata-rata faktor A kategori ke- ℓ , β_k merupakan rata-rata faktor B kategori ke- k , $\gamma_{\ell k}$ merupakan rata-rata interaksi

antara faktor A kategori ke- ℓ dengan faktor B kategori ke- k , dan $e_{\ell kr}$ merupakan variabel random eror yang mengikuti variabel random $N_p(\mathbf{0}, \Sigma)$ yang menunjukkan sampel ke- r dari sebanyak n observasi. Semua vektor berukuran $p \times 1$ dengan p adalah banyaknya variabel.

Tabel 2.3 Statistik Uji MANOVA *Two-Way*

Sumber Variansi	Matriks Jumlah dari Kuadrat dan Kali (SSP)	Derajat Bebas
Faktor A	$\mathbf{SSP}_{\text{fac a}} = \sum_{\ell=1}^g f n (\bar{\mathbf{y}}_{\ell \cdot} - \bar{\mathbf{y}}) (\bar{\mathbf{y}}_{\ell \cdot} - \bar{\mathbf{y}})'$	$g - 1$
Faktor B	$\mathbf{SSP}_{\text{fac b}} = \sum_{k=1}^f g n (\bar{\mathbf{y}}_{\cdot k} - \bar{\mathbf{y}}) (\bar{\mathbf{y}}_{\cdot k} - \bar{\mathbf{y}})'$	$f - 1$
Interaksi	$\mathbf{SSP}_{\text{int}} = \sum_{\ell=1}^g \sum_{k=1}^f n (\bar{\mathbf{y}}_{\ell k} - \bar{\mathbf{y}}_{\ell \cdot} - \bar{\mathbf{y}}_{\cdot k} + \bar{\mathbf{y}}) (\bar{\mathbf{y}}_{\ell k} - \bar{\mathbf{y}}_{\ell \cdot} - \bar{\mathbf{y}}_{\cdot k} + \bar{\mathbf{y}})'$	$(g - 1)(f - 1)$
Residual	$\mathbf{SSP}_{\text{res}} = \sum_{\ell=1}^g \sum_{k=1}^f \sum_{r=1}^n (\mathbf{y}_{\ell kr} - \bar{\mathbf{y}}_{\ell k}) (\mathbf{y}_{\ell kr} - \bar{\mathbf{y}}_{\ell k})'$	$gf(n - 1)$
Total	$\mathbf{SSP}_{\text{cor}} = \sum_{\ell=1}^g \sum_{k=1}^f \sum_{r=1}^n (\mathbf{y}_{\ell kr} - \bar{\mathbf{y}}) (\mathbf{y}_{\ell kr} - \bar{\mathbf{y}})'$	$gfn - 1$

Dari perhitungan pada Tabel 2.3, statistik uji perbandingan antar kategori faktor pada MANOVA *two-way* dapat dihitung dengan rumus (2.12) untuk faktor interaksi antara faktor A dengan faktor B, rumus (2.14) untuk faktor A, dan rumus (2.16) untuk faktor B. Statistik uji dengan pendekatan distribusi F dapat dihitung dengan rumus (2.11) untuk faktor interaksi antara faktor A dengan faktor B, rumus (2.13) untuk faktor A, dan rumus (2.15) untuk faktor B.

a. Pengujian perbandingan untuk faktor interaksi.

Hipotesis :

H_0 : $\gamma_{11} = \gamma_{12} = \dots = \gamma_{gf} = \mathbf{0}$ atau tidak ada perbedaan rata-rata antar kategori faktor interaksi.

H_1 : minimal terdapat satu $\gamma_{\ell k} \neq \mathbf{0}$ untuk $\ell = 1, 2, \dots, g$ dan $k = 1, 2, \dots, f$ atau ada perbedaan rata-rata antar kategori faktor interaksi.

Statistik uji:

$$F = \left(\frac{1 - \Lambda^*}{\Lambda^*} \right) \frac{(gf(n-1) - p + 1)/_2}{(|(g-1)(f-1) - p| + 1)/_2} \quad (2.11)$$

$$\Lambda^* = \frac{|\mathbf{SSP}_{\text{res}}|}{|\mathbf{SSP}_{\text{int}} + \mathbf{SSP}_{\text{res}}|} \quad (2.12)$$

Daerah kritis :

Tolak H_0 jika $F > F_{(|(g-1)(f-1) - p| + 1), (gf(n-1) - p + 1)}(\alpha)$.

b. Pengujian perbandingan untuk faktor A.

Hipotesis :

H_0 : $\tau_1 = \tau_2 = \dots = \tau_g = \mathbf{0}$ atau tidak ada perbedaan rata-rata antar kategori faktor A.

H_1 : minimal terdapat satu $\tau_\ell \neq \mathbf{0}$ untuk $\ell = 1, 2, \dots, g$ atau ada perbedaan rata-rata antar kategori faktor A.

Statistik uji:

$$F = \left(\frac{1 - \Lambda^*}{\Lambda^*} \right) \frac{(gf(n-1) - p + 1)/_2}{(|(g-1) - p| + 1)/_2} \quad (2.13)$$

$$\Lambda^* = \frac{|\mathbf{SSP}_{\text{res}}|}{|\mathbf{SSP}_{\text{fac 1}} + \mathbf{SSP}_{\text{res}}|} \quad (2.14)$$

Daerah kritis :

Tolak H_0 jika $F > F_{(|(g-1) - p| + 1), (gf(n-1) - p + 1)}(\alpha)$.

c. Pengujian perbandingan untuk faktor B.

Hipotesis :

$H_0: \beta_1 = \beta_2 = \dots = \beta_f = \mathbf{0}$ atau tidak ada perbedaan rata-rata antar kategori faktor B.

H_1 : minimal terdapat satu $\beta_k \neq \mathbf{0}$ untuk $k = 1, 2, \dots, f$ atau ada perbedaan rata-rata antar kategori faktor B.

Statistik uji:

$$F = \frac{(gf(n-1) - p + 1)/2}{\left(\frac{1 - \Lambda^*}{\Lambda^*}\right) (|(f-1) - p| + 1)/2} \quad (2.15)$$

$$\Lambda^* = \frac{|\mathbf{SSP}_{res}|}{|\mathbf{SSP}_{fac 2} + \mathbf{SSP}_{res}|} \quad (2.16)$$

Daerah kritis :

Tolak H_0 jika $F > F_{(|(f-1)-p|+1), (gf(n-1)-p+1)}(\alpha)$.

2.4.3 Uji Pillai's Trace

Menurut Tabachnick dan Fidell (2007) pada MANOVA terdapat beberapa statistik uji yang dapat digunakan untuk membuat keputusan yakni *Pillai's Trace*, *Wilk's Lambda*, *Hotelling's Trace*, dan *Roy's Largest Root*. Statistik uji *Pillai's Trace* lebih kuat digunakan untuk asumsi homogenitas matriks varians kovarians yang terganggu dan bersifat robust terhadap asumsi yang terlanggar. Menurut Rencher (2002), statistik uji *Pillai's Trace* dapat dihitung dengan rumus (2.17).

Hipotesis :

H_0 : tidak ada perbedaan rata-rata antar kategori faktor.

H_1 : ada perbedaan rata-rata antar kategori faktor.

Statistik Uji :

$$F = \frac{(2N + s + 1)V^{(s)}}{(2m + s + 1)(s - V^{(s)})} \quad (2.17)$$

dengan

$$V = tr((\mathbf{B} + \mathbf{W})^{-1}\mathbf{B})$$

$$N = \frac{1}{2}(VE - p - 1)$$

$$m = \frac{1}{2}(|VH - p| - 1)$$

Keterangan :

s : Min (VH, p).

VH : Derajat bebas hipotesis.

VE : Derajat bebas eror.

p : Banyak variabel.

Daerah kritis :

Tolak H_0 jika $F \geq F_{s(2m+s+1), s(2N+s+1)}(\alpha)$.

2.5 *Post Hoc Test*

Post Hoc Test pada MANOVA dilakukan setelah H_0 ditolak guna mengetahui faktor mana yang paling memengaruhi variabel (Stevens, 2002). Untuk data yang berdistribusi normal, uji *Post Hoc* yang bisa digunakan adalah uji *Bonferroni* pada (2.18) jika data homogen atau uji *Games-Howell* pada (2.19) jika data tidak homogen. Pada metode *Bonferroni*, nilai α dibagi dengan banyak pasangan perbandingan, sehingga metode ini disarankan untuk peneliti yang menggunakan jumlah pasangan perbandingan yang kecil (Lindman, 1992).

$$\hat{t}_{ki} - \hat{t}_{\ell i} \pm t_{n-g} \left(\frac{\alpha}{pg(g-1)} \right) \sqrt{\frac{w_{ii}}{n-g} \left(\frac{1}{n_k} + \frac{1}{n_\ell} \right)} \quad (2.18)$$

dengan

$$n = \sum_{k=1}^g n_k$$

$$i = 1, 2, \dots, p$$

$$\ell < k = 1, 2, \dots, g$$

Keterangan :

\hat{t}_{ki} : Komponen ke- i pada \hat{t}_k .

$\hat{t}_{\ell i}$: Komponen ke- i pada \hat{t}_ℓ .

n : Banyaknya sampel.

- p : Banyaknya variabel.
 g : Banyaknya kategori faktor.
 w_{ii} : Elemen diagonal \mathbf{W} atau $\mathbf{SSP}_{\text{res}}$.
 n_k : Banyaknya sampel pada kategori k .
 n_ℓ : Banyaknya sampel pada kategori ℓ .

Menurut Shingala dan Rajyaguru (2015), prosedur *Games-Howell* (GH) adalah perpanjangan dari prosedur *Tukey Kramer* (TK) dengan menggunakan pendekatan *Welch*. Metode GH direkomendasikan ketika ukuran sampel lebih besar dari lima (Toothaker, 1991).

$$\hat{t}_{ki} - \hat{t}_{\ell i} \pm \left(\frac{q_{\alpha, g, v}}{\sqrt{2}} \right) \sqrt{\frac{s_k^2}{n_k} + \frac{s_\ell^2}{n_\ell}} \quad (2.19)$$

dengan

$$v = \frac{\left(\frac{s_k^2}{n_k} + \frac{s_\ell^2}{n_\ell} \right)^2}{\frac{s_k^4}{n_k^2(n_k - 1)} + \frac{s_\ell^4}{n_\ell^2(n_\ell - 1)}}$$

Keterangan :

s_k^2 : Varians sampel dari kategori ke- k .

s_ℓ^2 : Varians sampel dari kategori ke- ℓ .

q : Distribusi studentized.

Apabila dalam perhitungan pada rumus 2.18 dan 2.19 menghasilkan selang kepercayaan dengan interval antara nilai batas atas dengan batas bawah tidak memuat nilai nol (bertanda sama), maka menunjukkan ada perbedaan.

2.6 Mata Uji Seleksi Masuk PTN Jalur Ujian Tulis

Menurut Arikunto (2009), sebelum memasuki suatu tingkat sekolah (institusi), calon siswa (peserta didik) dinilai dahulu kemampuannya sehingga dapat diketahui apakah kelak ia akan mampu mengikuti pelajaran dan melaksanakan tugas-tugas yang akan diberikan. Jalur ujian tulis adalah salah satu jalan untuk perguruan tinggi negeri (PTN). Ujian tulis 2019 terdiri dari Tes Potensi Skolastik (TPS) dan Tes Kompetensi Akademik (TKA)

yang sesuai dengan gelombang ujian. TPS mengukur kemampuan kognitif, yaitu kemampuan penalaran dan pemahaman umum yang penting untuk keberhasilan di sekolah formal, khususnya pendidikan tinggi. Kemampuan ini meliputi kemampuan penalaran umum, pengetahuan kuantitatif, pengetahuan dan pemahaman umum, serta kemampuan memahami bacaan dan menulis. Sedangkan TKA mengukur pengetahuan dan pemahaman keilmuan yang diajarkan di sekolah dan diperlukan seseorang agar dapat berhasil dalam menempuh pendidikan tinggi. TKA juga mengukur kemampuan kognitif yang terkait langsung dengan konten mata pelajaran yang dipelajari di sekolah. TKA jenis ujian Sains dan Teknologi (saintek) terdiri dari matematika saintek, fisika, kimia, dan biologi. TKA jenis ujian Sosial dan Humaniora (Soshum) terdiri dari matematika soshum, geografi, sejarah, sosiologi, dan ekonomi.

(Halaman ini sengaja dikosongkan)

BAB III

METODE PENELITIAN

3.1 Sumber Data

Data yang digunakan dalam penelitian ini merupakan data sekunder yang berasal dari tim penyelenggara seleksi masuk perguruan tinggi negeri jalur ujian tulis 2019. Data terdiri dari skor hasil ujian tulis TPS, TKA saintek, dan TKA soshum. Data skor merupakan data peminat PTN-BH yang sama pada kedua pilihan dan mengikuti ujian tulis pada gelombang 1 yaitu pada tanggal 13 April hingga 4 Mei 2019 dan/atau gelombang 2 pada tanggal 11 hingga 26 Mei 2019.

3.2 Variabel Penelitian

Penelitian ini melakukan analisis dua jenis ujian yaitu jenis ujian saintek dan soshum. Faktor yang digunakan pada kedua analisis sama yaitu PTN-BH tujuan dan gelombang ujian yang berupa data kategorik. Variabel yang digunakan berupa data numerik. Variabel yang membedakan dari kedua analisis adalah pada nilai TKA. Pembagian variabel yang digunakan pada penelitian ini dapat dituliskan pada Tabel 3.1.

Tabel 3.1 Variabel Penelitian

Variabel	Deskripsi	Jenis Ujian	Skala
X_1	PTN-BH tujuan		
	1: UI		
	2: UGM		
	3: ITB	Saintek dan Soshum	Nominal
	4: IPB		
	5: USU		
	6: UPI		
	7: UNAIR		
	8: UNDIP		
	9: UNPAD	Saintek dan Soshum	Nominal
	10: UNHAS		
11: ITS			

Tabel 3.1 Variabel Penelitian (lanjutan)

Variabel	Deskripsi	Jenis Ujian	Skala
X_2	Gelombang ujian 1: Gelombang 1 2: Gelombang 2	Saintek dan Soshum	Nominal
Y_1	Skor penalaran umum	Saintek dan Soshum	Rasio
Y_2	Skor pengetahuan kuantitatif	Saintek dan Soshum	Rasio
Y_3	Skor pengetahuan dan pemahaman umum	Saintek dan Soshum	Rasio
Y_4	Skor kemampuan memahami bacaan dan menulis	Saintek dan Soshum	Rasio
Y_5	Skor matematika saintek	Saintek	Rasio
Y_6	Skor fisika	Saintek	Rasio
Y_7	Skor kimia	Saintek	Rasio
Y_8	Skor biologi	Saintek	Rasio
Y_9	Skor matematika soshum	Soshum	Rasio
Y_{10}	Skor geografi	Soshum	Rasio
Y_{11}	Skor sejarah	Soshum	Rasio
Y_{12}	Skor sosiologi	Soshum	Rasio
Y_{13}	Skor ekonomi	Soshum	Rasio

3.3 Struktur Data

Struktur data yang digunakan dalam analisis MANOVA *one-way* ditunjukkan pada Tabel 3.2.

Tabel 3.2 Struktur Data MANOVA *One-Way*

	X_{11}	...	X_{1h}
Y_1	...	Y_m	Y_1 ... Y_m
Y_{111}	...	Y_{1m1}	Y_{h11} ... Y_{hm1}
Y_{112}	...	Y_{1m2}	Y_{h12} ... Y_{hm2}
\vdots	\ddots	\vdots	\vdots ... \vdots
Y_{11n}	...	Y_{1mn}	Y_{h1n} ... Y_{hmn}

Dimana Y_{hmn} merupakan data dengan kategori faktor ke- h , variabel ke- m , dan perlakuan ke- n . Struktur data untuk analisis MANOVA *two-way* ditampilkan pada Tabel 3.3.

Tabel 3.3 Struktur Data MANOVA *Two-Way*

		Faktor B								
		B ₁	B ₂	...	B _e					
Faktor A	A ₁	Y ₁₁₁₁ ... Y _{11m1} Y ₁₂₁₁ ... Y _{12m1} ... Y _{1e11} ... Y _{1em1}								
		⋮ ⋮ ⋮ ⋮ ⋮ ⋮ ⋮ ⋮ ⋮								
		Y _{111n} ... Y _{11mn} Y _{121n} ... Y _{12mn} ... Y _{1e1n} ... Y _{1emn}								
	A ₂	Y ₂₁₁₁ ... Y _{21m1} Y ₂₂₁₁ ... Y _{22m1} ... Y _{2e11} ... Y _{2em1}								
		⋮ ⋮ ⋮ ⋮ ⋮ ⋮ ⋮ ⋮ ⋮								
		Y _{211n} ... Y _{21mn} Y _{221n} ... Y _{22mn} ... Y _{2e1n} ... Y _{2emn}								
	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	
	A _d	Y _{d111} ... Y _{d1m1} Y _{d211} ... Y _{d2m1} ... Y _{de11} ... Y _{dem1}								
		⋮ ⋮ ⋮ ⋮ ⋮ ⋮ ⋮ ⋮ ⋮								
		Y _{d11n} ... Y _{d1mn} Y _{d21n} ... Y _{d2mn} ... Y _{de1n} ... Y _{demn}								

Dimana Y_{demn} merupakan data dengan kategori variabel respon ke- m dari faktor A level ke- d , faktor B level ke- e , dan responden ke- n .

3.4 Langkah penelitian

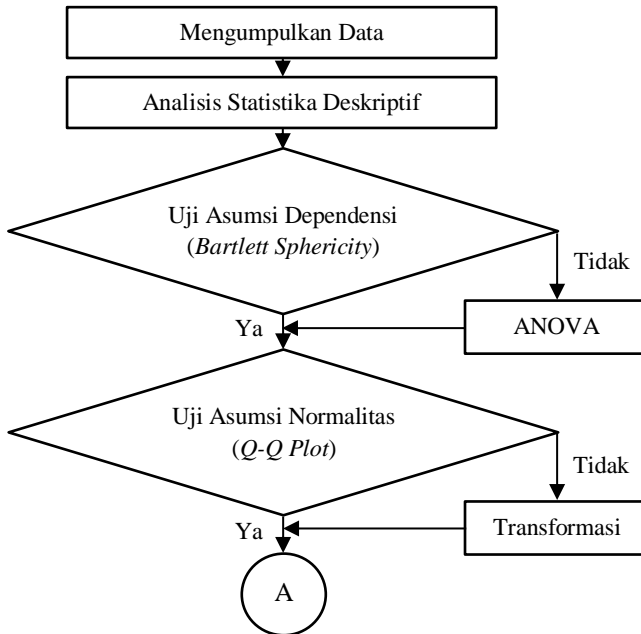
Langkah analisis untuk mencapai tujuan dalam penelitian pada jenis ujian saintek maupun soshum dapat dijabarkan sebagai berikut.

1. Langkah analisis untuk mengidentifikasi karakteristik PTN-BH dan gelombang ujian berdasarkan skor setiap mata uji hasil ujian tulis.
 - a. Menghitung rata-rata dan standar deviasi skor hasil ujian tulis menurut PTN-BH tujuan dan gelombang ujian serta menghitung korelasi antar mata uji.
 - b. Memvisualisasikan variabel dengan *boxplot* dan histogram untuk mengetahui sebaran data skor hasil ujian tulis menurut PTN-BH tujuan dan gelombang ujian.
 - c. Interpretasi hasil analisis statistika deskriptif.
2. Langkah analisis untuk menguji perbandingan skor setiap mata uji hasil ujian tulis menurut PTN-BH tujuan dan gelombang ujian.
 - a. Menguji asumsi.
 - i. Menguji dependensi dengan uji *Bartlett Sphericity*.

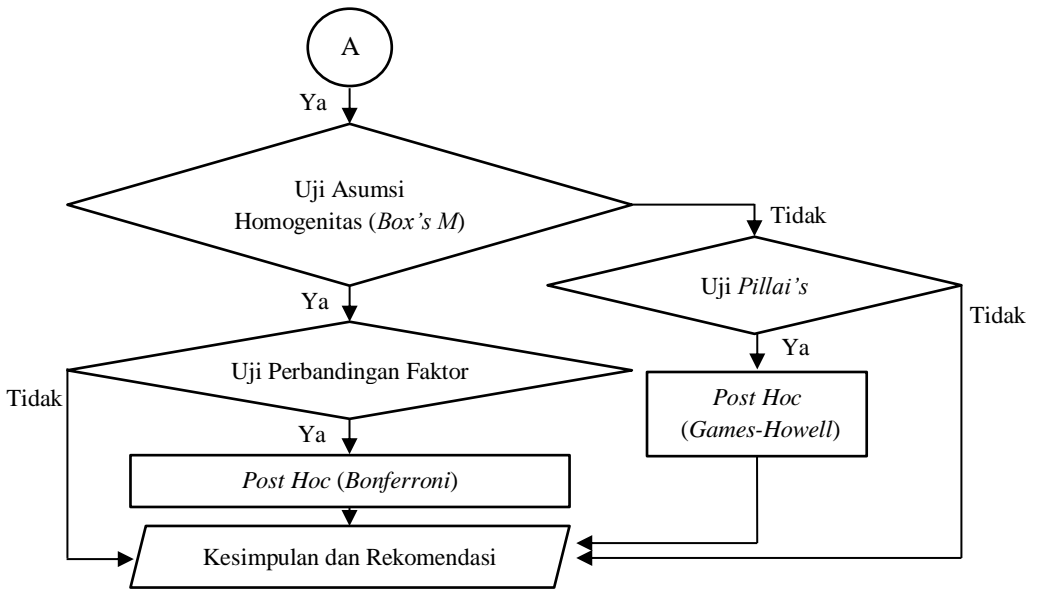
- ii. Memeriksa distribusi normal multivariat dengan *Q-Q plot*.
- iii. Menguji homogenitas matriks varians kovarians dengan uji *Box's M*.
- b. Menguji perbandingan faktor.
- c. Menguji kategori faktor yang memiliki perbedaan yang signifikan dengan *Post Hoc test*.
- d. Menarik kesimpulan dan saran.

3.5 Diagram Alir

Diagram alir penelitian ini adalah sebagai berikut.



Gambar 3.1 Diagram Alir



Gambar 3.1 Diagram Alir (lanjutan)

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BAB IV

ANALISIS DAN PEMBAHASAN

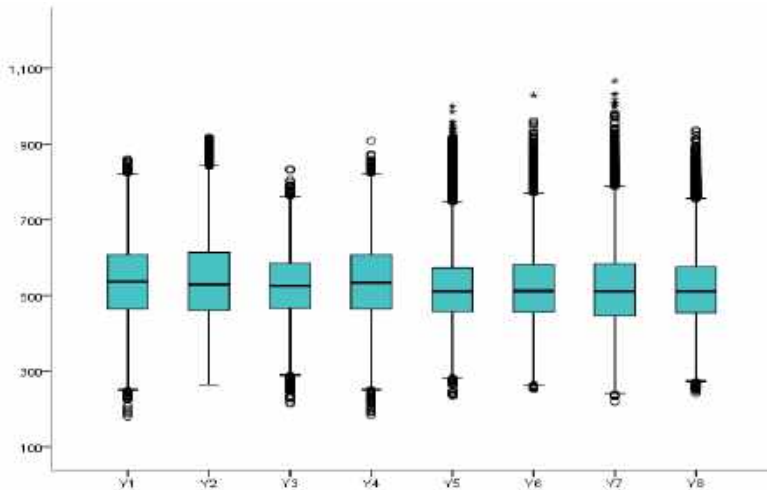
Sebelum dianalisis, perlu melakukan *preprocessing* data agar data dapat memenuhi persyaratan untuk dapat dianalisis. Tahapan dalam *preprocessing* data yaitu seleksi dan pembersihan data. Seleksi data yang dilakukan adalah mengambil data peserta ujian tulis 2019 yang memilih PTN-BH yang sama pada kedua pilihan dan memisahkan data antara jenis ujian saintek dan soshum. Pembersihan data yang dilakukan adalah menghapus *missing value*. *Missing value* yang ditemukan pada data adalah tidak adanya skor ujian pada semua atau beberapa mata uji yang pada penelitian ini digunakan sebagai variabel. Pada penelitian ini juga mengubah nama PTN-BH tujuan dan gelombang ujian menjadi data kategorik seperti pada Tabel 3.1 agar dapat dianalisis dengan MANOVA. Peserta yang mengikuti dua kali ujian pada gelombang 1 dan 2 pada jenis ujian yang sama maka ditempatkan di salah satu gelombang yaitu gelombang yang jumlah skornya lebih tinggi.

Peserta ujian tulis 2019 yang memilih PTN-BH yang sama pada kedua pilihan yaitu sebanyak 66.954 peserta. *Missing value* yang ditemukan adalah sebanyak 20 sehingga data yang digunakan dalam penelitian adalah sebanyak 66.934 dengan peserta saintek sejumlah 36.544, soshum sejumlah 28.366, dan peserta yang memilih keduanya sejumlah 2.024. Dari data peserta tersebut maka data penelitian untuk jenis ujian saintek adalah 38.568 peserta dan untuk jenis ujian soshum adalah 30.390 peserta.

4.1 Karakteristik PTN-BH dan Gelombang Ujian

Kualitas peserta ujian tulis dapat digambarkan dengan statistika deskriptif. Statistika deskriptif dalam penelitian ini dilakukan untuk membandingkan kualitas peserta antar PTN-BH dan gelombang ujian yang diikutinya berdasarkan skor hasil ujian tulis tiap peserta.

Terdapat delapan mata uji untuk jenis ujian saintek yaitu TPS yang terdiri dari mata uji penalaran umum, pengetahuan kuantitatif, pengetahuan dan pemahaman umum, dan kemampuan memahami bacaan dan menulis serta TKA yang terdiri dari mata uji matematika saintek, fisika, kimia, dan biologi (keterangan variabel di Tabel 3.1). Gambar 4.1 menunjukkan perbandingan persebaran skor setiap mata uji ujian tulis pada jenis ujian saintek.



Gambar 4.1 Boxplot Skor Setiap Mata Uji Jenis Ujian Saintek

Dari *boxplot* tersebut dapat diketahui bahwa median skor setiap mata uji hampir sama dengan persebaran nilai memusat pada kisaran skor 500. Terdapat outlier atau skor yang melebihi batas bawah dan batas atas pada semua mata uji namun tidak pada batas bawah mata uji TPS Pengetahuan Kuantitatif. Skor pada semua mata uji memiliki keberagaman atau variansi yang tidak jauh berbeda satu dengan yang lainnya.

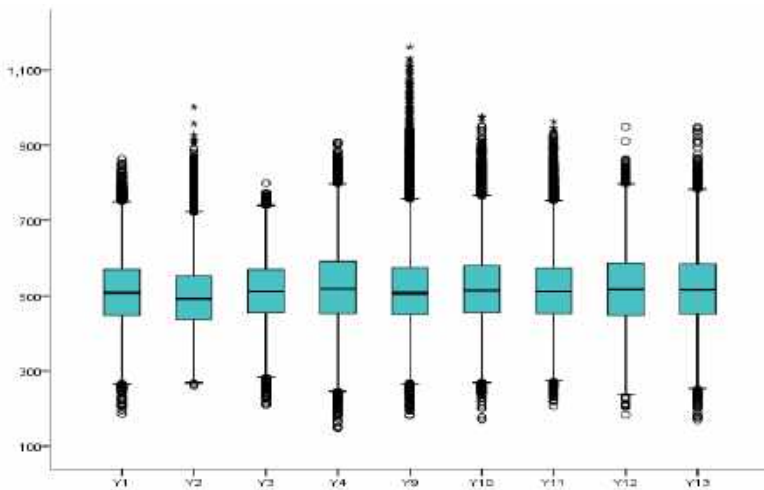
Selanjutnya ditunjukkan gambaran pola hubungan antar mata uji pada jenis ujian saintek. Berdasarkan Tabel 4.1, dapat diketahui bahwa antar mata uji jenis ujian saintek memiliki korelasi atau hubungan yang lemah dan positif. Terdapat korelasi

yang kuat antara mata uji penalaran umum (Y_1) dengan kemampuan memahami bacaan dan menulis (Y_4).

Tabel 4.1 Korelasi Antar Mata Uji Jenis Ujian Sainstek

	Y_1	Y_2	Y_3	Y_4	Y_5	Y_6	Y_7	Y_8
Y_1	1	0,6	0,5	0,6	0,2	0,3	0,4	0,4
Y_2	0,6	1	0,4	0,5	0,2	0,4	0,4	0,4
Y_3	0,5	0,4	1	0,4	0,1	0,2	0,3	0,3
Y_4	0,6	0,5	0,4	1	0,2	0,3	0,4	0,3
Y_5	0,2	0,2	0,1	0,2	1	0,2	0,2	0,1
Y_6	0,3	0,4	0,2	0,3	0,2	1	0,3	0,3
Y_7	0,4	0,4	0,3	0,4	0,2	0,3	1	0,3
Y_8	0,4	0,4	0,3	0,3	0,1	0,3	0,3	1

Pada jenis ujian soshum terdapat sembilan mata uji yaitu TPS yang terdiri dari mata uji penalaran umum, pengetahuan kuantitatif, pengetahuan dan pemahaman umum, dan kemampuan memahami bacaan dan menulis serta TKA yang terdiri dari mata uji matematika soshum, ekonomi, sejarah, geografi, dan sosiologi (keterangan variabel di Tabel 3.1). Gambar 4.2 berikut menunjukkan perbandingan persebaran skor setiap mata uji ujian tulis pada jenis ujian soshum.



Gambar 4.2 Boxplot Skor Setiap Mata Uji Jenis Ujian Soshum

Dari Gambar 4.2 dapat diketahui bahwa terdapat outlier di bagian atas dan bawah pada semua mata uji. Hal tersebut dapat diartikan bahwa terdapat beberapa skor yang melebihi batas atas maupun bawah pada masing-masing mata uji jenis ujian soshum. Median skor hampir sama pada semua mata uji yaitu berpusat pada angka 500. Antar mata uji memiliki keberagaman data yang tidak berbeda jauh. Perbandingan skor mata uji berdasarkan PTN-BH tujuan dan gelombang ujian dapat dijabarkan pada karakteristik data sebagai berikut.

Tabel 4.2 Korelasi Antar Mata Uji Jenis Ujian Soshum

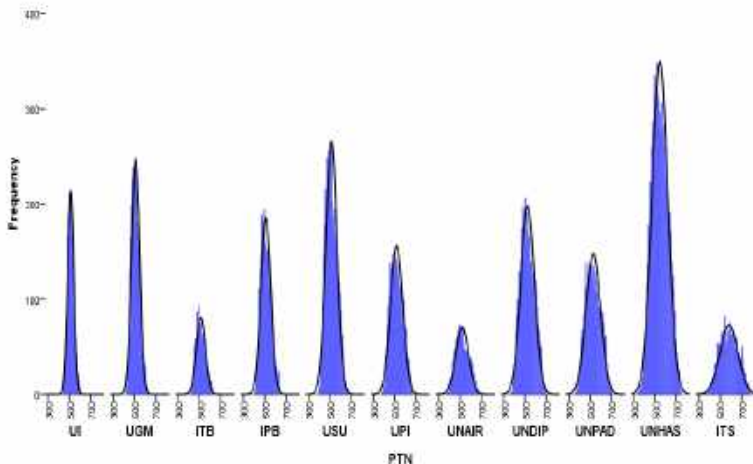
	Y_1	Y_2	Y_3	Y_4	Y_5	Y_6	Y_7	Y_8	Y_9
Y_1	1	0,4	0,5	0,6	0,1	0,4	0,3	0,3	0,4
Y_2	0,4	1	0,3	0,3	0,1	0,3	0,2	0,2	0,3
Y_3	0,5	0,3	1	0,4	0,1	0,3	0,2	0,2	0,3
Y_4	0,6	0,3	0,4	1	0,1	0,3	0,3	0,3	0,4
Y_5	0,1	0,1	0,1	0,1	1	0,1	0,1	0,0	0,1
Y_6	0,4	0,3	0,3	0,3	0,1	1	0,3	0,3	0,4
Y_7	0,3	0,2	0,2	0,3	0,1	0,3	1	0,3	0,4
Y_8	0,3	0,2	0,2	0,3	0,0	0,3	0,3	1	0,3
Y_9	0,4	0,3	0,3	0,4	0,1	0,4	0,4	0,3	1

Tabel 4.2 merupakan gambaran hubungan antar mata uji jenis ujian soshum. Sama seperti jenis ujian saintek yaitu antar mata uji jenis ujian soshum memiliki korelasi atau hubungan yang lemah dan positif. Terdapat korelasi yang kuat antara mata uji penalaran umum (Y_1) dengan kemampuan memahami bacaan dan menulis (Y_4).

a. PTN-BH Tujuan

Gambar 4.3 dan Gambar 4.4 merupakan perbandingan rata-rata dan standar deviasi skor peserta ujian tulis antar PTN-BH tujuan melalui histogram. Gambar 4.3 menunjukkan bahwa histogram UNHAS memiliki puncak tertinggi maka dapat diartikan bahwa UNHAS memiliki peminat terbanyak pada jenis ujian tulis saintek. Lebar kurva histogram menunjukkan nilai standar deviasi atau keberagaman nilai. Setiap histogram PTN-BH memiliki lebar kurva histogram yang berbeda sehingga

terdapat keberagaman kualitas calon mahasiswa baru pada masing-masing PTN-BH. Histogram UI memiliki lebar yang terkecil maka dapat dinyatakan bahwa skor peserta ujian tulis di PTN tersebut tidak terlalu beragam atau calon mahasiswa baru pada UI memiliki kualitas yang hampir sama.

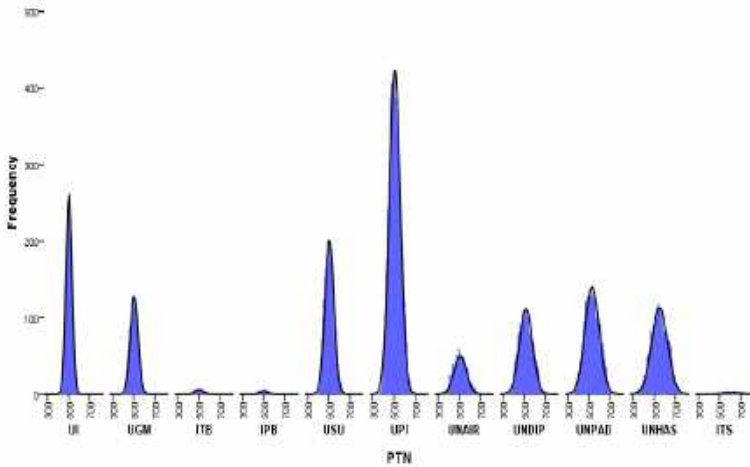


Gambar 4.3 Histogram Skor Ujian Tulis Antar PTN-BH Jenis Ujian Saintek

Nilai sumbu x dari titik puncak merupakan nilai rata-rata. Titik puncak kurva masing-masing PTN-BH berada di sekitar nilai 500 pada sumbu x maka rata-rata skor peserta jenis ujian saintek peminat PTN-BH berada di kisaran skor 500. Hal ini menunjukkan bahwa terdapat perbedaan yang kecil pada kualitas calon mahasiswa baru antar PTN-BH. Histogram ITS sedikit bergeser ke kanan yang menyebabkan puncak kurva berada di kisaran angka 500 hingga 700 pada sumbu x sehingga PTN tersebut memiliki rata-rata tertinggi daripada PTN-BH lainnya.

Gambar 4.4 menunjukkan bahwa histogram UPI memiliki puncak tertinggi maka dapat diartikan bahwa UPI memiliki peminat terbanyak pada jenis ujian tulis soshum. Histogram ITB, IPB, dan ITS terlihat sangat rendah karena jumlah peminat jenis ujian soshum pada PTN tersebut sangat sedikit. Setiap histogram

memiliki lebar kurva histogram yang berbeda yang berarti terdapat keberagaman kualitas calon mahasiswa baru pada masing-masing PTN-BH.

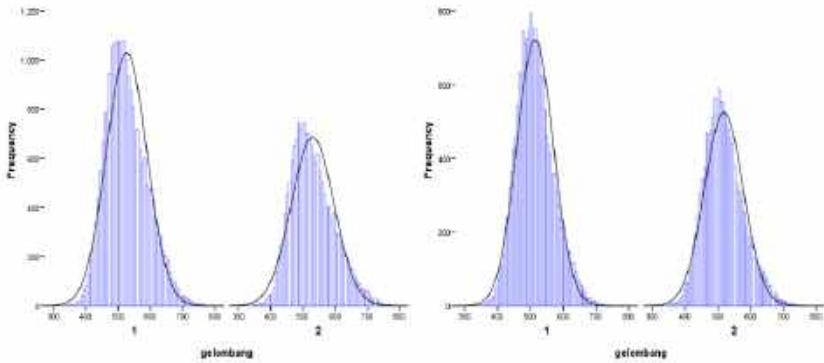


Gambar 4.4 Histogram Skor Ujian Tulis Antar PTN-BH Jenis Ujian Soshum

Titik puncak kurva masing-masing PTN-BH berada di sekitar nilai 500 pada sumbu x. Hal ini menunjukkan bahwa terdapat perbedaan yang kecil pada kualitas calon mahasiswa baru antar PTN-BH. Berdasarkan Lampiran 2, sama seperti pada jenis ujian saintek yaitu skor peserta ujian tulis di UI tidak terlalu beragam atau calon mahasiswa baru pada UI memiliki kualitas yang hampir sama dan ITS memiliki rata-rata tertinggi daripada PTN-BH lainnya.

b. Gelombang Ujian

Gambar 4.5 menunjukkan perbandingan rata-rata dan standar deviasi skor peserta ujian tulis antara gelombang 1 dan 2 melalui histogram. Histogram pada Gambar 4.5 memiliki kemiringan ke arah kanan atau *positive skewed* yang menunjukkan bahwa terdapat beberapa peserta ujian tulis jenis ujian saintek memiliki skor di bawah rata-rata pada masing-masing gelombang ujian.



(a) Jenis Ujian Saintek

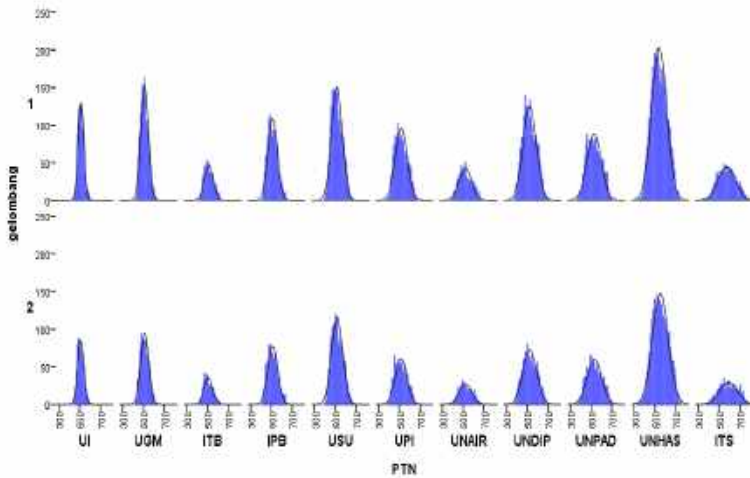
(b) Jenis Ujian Soshum

Gambar 4.5 Histogram Skor Ujian Tulis Terhadap Gelombang Ujian

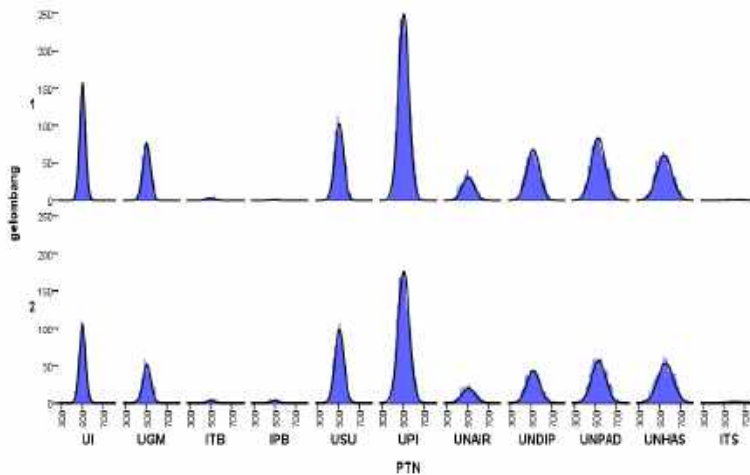
Histogram gelombang 1 memiliki puncak yang lebih tinggi maka jumlah peserta yang mengikuti ujian tulis pada gelombang 1 lebih banyak daripada gelombang 2. Lebar histogram pada gelombang 1 dan 2 hampir sama sehingga dapat dinyatakan bahwa keberagaman skor peserta ujian tulis jenis ujian saintek maupun soshum merata pada kedua gelombang ujian. Titik puncak histogram gelombang 1 dan 2 hampir sama yaitu berada di sekitar angka 500 pada sumbu x maka rata-rata skor peserta ujian tulis jenis ujian saintek maupun soshum berada di kisaran skor 500 pada gelombang 1 maupun 2. Hal ini menunjukkan bahwa terdapat perbedaan yang kecil antar gelombang.

Selanjutnya, Gambar 4.6 berikut menggambarkan perbandingan skor mata uji berdasarkan PTN-BH dan gelombang ujian pada masing-masing jenis ujian. Berdasarkan kedua gambar tersebut, sebelas PTN-BH memiliki pola persebaran skor ujian tulis yang hampir sama pada gelombang 1 dan 2. Titik puncak kurva masing-masing PTN-BH pada gelombang ujian 1 dan 2 berada di sekitar angka 500 pada sumbu x maka rata-rata skor peserta peminat PTN-BH berada di kisaran skor 500 pada kedua gelombang ujian. Antar PTN-BH memiliki lebar kurva histogram yang berbeda-beda pada gelombang 1 dan 2 maka terdapat

perbedaan keberagaman kualitas calon mahasiswa baru di masing-masing PTN-BH pada gelombang 1 maupun 2.



(a) Jenis Ujian Saintek



(b) Jenis Ujian Soshum

Gambar 4.6 Histogram Skor Ujian Tulis Jenis Ujian Soshum Terhadap PTN-BH dan Gelombang Ujian

Hasil perhitungan statistika deskriptif antar PTN-BH pada setiap gelombang ujian ditunjukkan pada Tabel 4.3.

Tabel 4.3 Statistika Deskriptif Antar PTN-BH Tiap Gelombang Ujian

Jenis Ujian	PTN	Rata-Rata		Standar Deviasi	
		Gel 1	Gel 2	Gel 1	Gel 2
Saintek	UI	579,401	558,269	68,042	67,156
	UGM	574,267	561,189	65,156	64,744
	ITB	611,112	594,097	76,603	74,508
	IPB	544,259	531,006	54,020	51,084
	USU	502,262	500,740	55,078	48,690
	UPI	514,908	510,813	47,562	42,728
	UNAIR	533,800	527,526	58,429	55,639
	UNDIP	550,983	544,319	57,000	52,022
	UNPAD	528,901	532,612	58,402	62,343
	UNHAS	489,271	487,744	48,250	42,056
	ITS	571,987	559,421	63,787	60,248
Soshum	UI	569,273	542,877	64,805	52,954
	UGM	567,616	546,214	62,082	53,062
	ITB	563,120	542,026	54,518	49,990
	IPB	485,030	496,855	52,354	38,933
	USU	496,690	491,350	50,624	41,960
	UPI	501,505	498,200	48,118	39,119
	UNAIR	553,346	524,054	58,257	50,997
	UNDIP	550,221	531,594	56,228	49,380
	UNPAD	523,512	516,904	58,455	52,552
	UNHAS	485,994	478,107	49,117	39,651
	ITS	520,208	503,477	59,501	38,455

Rata-rata skor peminat ITB jenis ujian saintek lebih tinggi dan lebih beragam daripada sepuluh PTN-BH lainnya pada gelombang 1 dan 2. Rata-rata skor UI gelombang 1 dan UGM gelombang 2 jenis ujian soshum paling tinggi dan beragam dari sepuluh PTN-BH. Semua PTN-BH memiliki rata-rata skor gelombang 2 lebih tinggi daripada gelombang 1 kecuali rata-rata skor peminat UNPAD jenis ujian saintek dan peminat IPB jenis ujian soshum.

4.2 Uji Perbandingan

Setelah mengetahui gambaran kualitas calon mahasiswa baru melalui statistika deskriptif, selanjutnya dilakukan uji perbandingan variabel skor mata uji berdasarkan faktor PTN-BH tujuan dan gelombang ujian. Penelitian ini menggunakan $\alpha = 5\%$.

4.2.1 Uji Asumsi

a. Dependensi

Dependensi atau adanya hubungan antar variabel merupakan asumsi yang harus dipenuhi sebelum melakukan analisis multivariat. Pengujian asumsi dependen menggunakan perhitungan *Bartlett Sphericity* pendekatan *chi-square*.

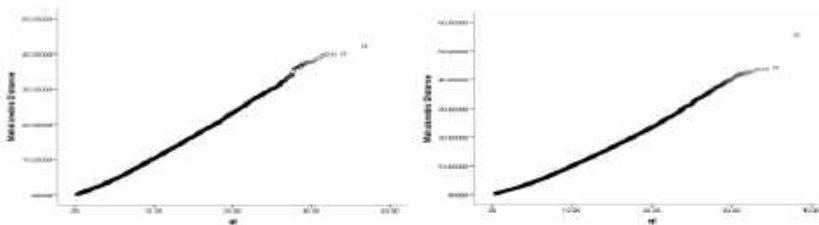
Tabel 4.4 Uji Asumsi Dependensi

Jenis Ujian	χ^2	<i>P-Value</i>	$\chi^2_{(\frac{1}{2}p)(p-1)}(\alpha)$
Saintek	80.844,0	0,0	$\chi^2_{(28)}(\alpha) = 41,3$
Soshum	57.920,6	0,0	$\chi^2_{(36)}(\alpha) = 51,0$

Berdasarkan Tabel 4.4 dengan hipotesis nol adalah tidak terdapat korelasi antar variabel, dapat diputuskan bahwa hasil pengujiannya yaitu tolak H_0 karena $\chi^2 > \chi^2_{(\frac{1}{2}p)(p-1)}(\alpha)$ dan *p-value* $< \alpha$. Kesimpulan dari pengujian dependensi adalah terdapat korelasi atau hubungan antar mata uji pada jenis ujian saintek maupun soshum sehingga asumsi dependen terpenuhi.

b. Distribusi Normal Multivariat

Asumsi MANOVA yang pertama yaitu data berasal dari populasi yang berdistribusi normal multivariat.



(a) Jenis Ujian Saintek

(b) Jenis Ujian Soshum

Gambar 4.7 Q-Q Plot

Pemeriksaan distribusi normal multivariat dapat dilakukan dengan cara membuat *Q-Q plot* atau *chi-square plot* seperti pada Gambar 4.7. Selain itu, pemeriksaan distribusi normal multivariat dapat dilakukan dengan menghitung koefisien korelasi antara jarak mahalanobis dengan persentil atas distribusi *chi-square* seperti pada Tabel 4.5.

Tabel 4.5 Koefisien Korelasi

Jenis Ujian	r_Q
Saintek	0,9
Soshum	0,9

Berdasarkan *Q-Q plot* dan perhitungan koefisien korelasi, diperoleh kesimpulan bahwa data skor peserta ujian tulis jenis ujian saintek maupun soshum mengikuti distribusi normal. Hal ini dapat diketahui dari *Q-Q plot* yang membentuk menyerupai garis lurus dan adanya korelasi yang kuat antara jarak mahalanobis dengan persentil atas distribusi *chi-square*. Maka dari itu asumsi distribusi normal multivariat terpenuhi.

c. Homogenitas Matriks Varians Kovarians

Asumsi MANOVA yang ke dua adalah homogenitas atau keseragaman matriks varians kovarians antar kategori dalam faktor yang dianalisis. Uji homogenitas matriks varians kovarians yang digunakan adalah uji *Box's M*.

Tabel 4.6 Uji Asumsi Homogenitas

Jenis Ujian	Faktor	F	P -Value	$F_{a_1, a_2}(\alpha)$
Saintek	X_1	157,5	0,0	$F_{360;351.706.396,879}(\alpha)=1,1$
	X_2	18,2	0,0	$F_{36;3.952.694.700,132}(\alpha)=1,4$
	$X_1 * X_2$	75,8	0,0	$F_{756;158.432.783,161}(\alpha)=1,1$
Soshum	X_1	100,9	0,0	$F_{450;602.673,026}(\alpha)=1,1$
	X_2	12,0	0,0	$F_{45;2.656.101.921,403}(\alpha)=1,4$
	$X_1 * X_2$	47,8	0,0	$F_{945;178.599,060}(\alpha)=1,1$

Sesuai statistik uji pada Tabel 4.6 dengan hipotesis nol adalah matriks varians kovarians homogen maka menghasilkan keputusan yaitu tolak H_0 karena $F > F_{a_1, a_2}(\alpha)$ dan p -value $< \alpha$. Kesimpulan dari pengujian yaitu matriks varians kovarians antar

kategori pada faktor PTN-BH tujuan (X_1), gelombang ujian (X_2), dan interaksi ($X_1 * X_2$) jenis ujian saintek maupun soshum bersifat heterogen. Karena asumsi homogenitas tidak terpenuhi, maka uji perbandingan menggunakan statistik uji *Pillai's Trace* dan *Post Hoc Test* menggunakan *Games Howell*.

4.2.2 MANOVA *One-Way*

Pada analisis MANOVA *one-way* dilakukan uji perbandingan skor hasil ujian tulis antar PTN-BH dengan struktur data pada Tabel 4.7.

Tabel 4.7 Struktur Data MANOVA *One-Way* Faktor PTN-BH Tujuan

	$X_{1(1)}$		...	$X_{1(11)}$		
Y_1	...	Y_m		Y_1	...	Y_m
$Y_{(1)11}$...	$Y_{(1)m1}$		$Y_{(11)11}$	...	$Y_{(11)m1}$
$Y_{(1)12}$...	$Y_{(1)m2}$		$Y_{(11)12}$	...	$Y_{(11)m2}$
\vdots	\ddots	\vdots		\vdots	\ddots	\vdots
$Y_{(1)1n}$...	$Y_{(1)mn}$		$Y_{(11)1n}$	...	$Y_{(11)mn}$

Indeks m sesuai banyaknya variabel yaitu delapan mata uji untuk jenis ujian saintek dan sembilan mata uji untuk jenis ujian soshum. Indeks n sesuai banyaknya peserta pada masing-masing jenis ujian yaitu untuk jenis ujian saintek sebanyak 38.368 peserta dan jenis ujian soshum sebanyak 30.390. Model MANOVA *one-way* dengan faktor PTN-BH tujuan seperti pada persamaan 4.1.

$$Y_{\ell j} = \mu + \tau_{\ell} + e_{\ell j} \quad (4.1)$$

$$\ell = 1, 2, \dots, 11 ; j = 1, 2, \dots, n_{\ell}$$

Vektor μ merupakan vektor parameter atau rata-rata keseluruhan skor peminat PTN-BH, τ_{ℓ} merupakan rata-rata PTN-BH ke- ℓ , dan $e_{\ell j}$ merupakan eror pada PTN-BH ke- ℓ dan peserta ke- j dari sejumlah n_{ℓ} peserta. Keterangan indeks j atau banyaknya peminat setiap PTN-BH dicantumkan pada Tabel 4.8.

Tabel 4.8 Banyak Sampel Tiap PTN-BH

ℓ	n_{ℓ}	
	Saintek	Soshum
1 (UI)	2162	3211
2 (UGM)	3279	2017

Tabel 4.8 Banyak Sampel Tiap PTN-BH (lanjutan)

ℓ	n_{ℓ}	
	Saintek	Soshum
3 (ITB)	1210	98
4 (IPB)	3008	61
5 (USU)	4869	3654
6 (UPI)	3164	9428
7 (UNAIR)	1489	1264
8 (UNDIP)	4478	2942
9 (UNPAD)	3569	4033
10 (UNHAS)	9159	3620
11 (ITS)	2181	62

Berdasarkan model persamaan pada persamaan 4.1 maka didapatkan estimasi parameter untuk setiap mata uji. Pada jenis ujian saintek terdapat delapan model persamaan dan jenis ujian soshum terdapat sembilan model persamaan. Tabel 4.9 berikut merupakan estimasi parameter untuk mata uji fisika saintek (Y_6) dan matematika soshum (Y_9).

Tabel 4.9 Estimasi Parameter Model MANOVA *One-Way*

Parameter	Estimasi Parameter	
	Saintek (Y_6)	Soshum(Y_9)
Intersep	586,1	867,5
X1(UI)	-81,4	-362,7
X1(UGM)	-83,9	-365,5
X1(ITB)	-79,7	-364,8
X1(IPB)	-81,4	-368,5
X1(USU)	-77,1	-360,4
X1(UPI)	-74,3	-355,4
X1(UNAIR)	-72,7	-358,6
X1(UNDIP)	-68,7	-349,0
X1(UNPAD)	-59,1	-338,1
X1(UNHAS)	-45,4	-297,8
X1(ITS)	0	0

Estimasi parameter model MANOVA *one-way* jenis ujian saintek menghasilkan peminat UI akan menurunkan skor fisika sebesar 81,4 dibandingkan dengan peminat ITS dan variabel lainnya dianggap konstan. Peminat UGM akan menurunkan skor

fisika sebesar 83,9 dibandingkan dengan peminat ITS dan variabel lainnya dianggap konstan. Begitu pula seterusnya untuk parameter yang lain. Estimasi parameter MANOVA *one-way* jenis ujian soshum analog dengan jenis ujian saintek. Estimasi parameter untuk mata uji yang lain dapat dilihat di Lampiran 6. Setelah mengetahui model persamaan maka dilanjutkan uji perbandingan antar PTN-BH dengan hasil perhitungan statistik uji pada Tabel 4.10.

Tabel 4.10 MANOVA *One-Way*

Jenis Ujian	F	$P\text{-Value}$	$F_{s(2m+s+1),s(2N+s+1)}(\alpha)$
Saintek	49,6	0,0	$F_{(80),(308.456)}(\alpha)=1,3$
Soshum	37,2	0,0	$F_{(90),(273.411)}(\alpha)=1,3$

Hipotesis nol dari MANOVA *one-way* ini adalah tidak ada perbedaan rata-rata skor antar PTN-BH tujuan dan keputusannya adalah tolak H_0 karena $F \geq F_{s(2m+s+1),s(2N+s+1)}(\alpha)$ dan $p\text{-value} < \alpha$. Sesuai keputusannya, uji perbandingan antar PTN-BH dengan MANOVA *one-way* menghasilkan kesimpulan terdapat perbedaan rata-rata skor ujian tulis jenis ujian saintek maupun soshum antar PTN-BH tujuan. Maka dari itu, analisis perlu dilanjutkan ke *Post Hoc Test* untuk mengetahui PTN-BH yang memiliki perbedaan yang signifikan.

Tabel 4.11 *Post Hoc Test* MANOVA *One-Way* Jenis Ujian Saintek

PTN	Y_1	Y_2	Y_3	Y_4	Y_5	Y_6	Y_7	Y_8
UI UGM	-	-	-	-	-	-	-	-
UI ITB	-	-	-	-	-	-	-	-
UI IPB	-	-	-	-	-	-	-	-
UI USU	-	-	-	-	-	-	✓	✓
UI UPI	-	-	-	-	-	✓	-	✓
UI UNAIR	-	✓	-	-	-	✓	✓	✓
UI UNDIP	✓	✓	✓	✓	✓	✓	✓	✓
UI UNPAD	✓	✓	✓	✓	✓	✓	✓	✓
UI UNHAS	✓	✓	✓	✓	✓	✓	✓	✓
UI ITS	✓	✓	✓	✓	✓	✓	✓	✓
UGM ITB	-	-	-	-	-	-	-	-
UGM IPB	-	-	-	-	-	-	-	-
UGM USU	-	-	-	✓	-	✓	✓	✓

Tabel 4.11 *Post Hoc Test* MANOVA *One-Way* Jenis Ujian Saintek (lanjutan)

PTN		Y ₁	Y ₂	Y ₃	Y ₄	Y ₅	Y ₆	Y ₇	Y ₈
UGM	UPI	-	✓	-	✓	-	✓	-	✓
UGM	UNAIR	-	✓	-	-	-	✓	-	✓
UGM	UNDIP	✓	✓	✓	✓	✓	✓	✓	✓
UGM	UNPAD	✓	✓	✓	✓	✓	✓	✓	✓
UGM	UNHAS	✓	✓	✓	✓	✓	✓	✓	✓
UGM	ITS	✓	✓	✓	✓	✓	✓	✓	✓
ITB	IPB	-	-	-	-	-	-	-	-
ITB	USU	-	-	-	-	-	-	-	-
ITB	UPI	-	-	-	-	-	-	-	-
ITB	UNAIR	-	✓	-	-	-	-	-	✓
ITB	UNDIP	✓	✓	✓	✓	✓	✓	✓	✓
ITB	UNPAD	✓	✓	✓	✓	✓	✓	✓	✓
ITB	UNHAS	✓	✓	✓	✓	✓	✓	✓	✓
ITB	ITS	✓	✓	✓	✓	✓	✓	✓	✓
IPB	USU	-	-	-	-	-	-	-	-
IPB	UPI	-	✓	-	-	-	✓	-	-
IPB	UNAIR	-	✓	-	-	-	✓	-	✓
IPB	UNDIP	✓	✓	✓	✓	✓	✓	✓	✓
IPB	UNPAD	✓	✓	✓	✓	✓	✓	✓	✓
IPB	UNHAS	✓	✓	✓	✓	✓	✓	✓	✓
IPB	ITS	✓	✓	✓	✓	✓	✓	✓	✓
USU	UPI	-	-	-	-	-	-	-	-
USU	UNAIR	-	-	-	-	-	-	-	✓
USU	UNDIP	✓	✓	✓	✓	-	✓	✓	✓
USU	UNPAD	✓	✓	✓	✓	✓	✓	✓	✓
USU	UNHAS	✓	✓	✓	✓	✓	✓	✓	✓
USU	ITS	✓	✓	✓	✓	✓	✓	✓	✓
UPI	UNAIR	-	-	-	-	-	-	-	-
UPI	UNDIP	✓	✓	✓	✓	-	-	✓	✓
UPI	UNPAD	✓	✓	✓	✓	✓	✓	✓	✓
UPI	UNHAS	✓	✓	✓	✓	✓	✓	✓	✓
UPI	ITS	✓	✓	✓	✓	✓	✓	✓	✓
UNAIR	UNDIP	-	-	-	-	-	-	-	-
UNAIR	UNPAD	-	✓	-	✓	-	✓	-	-
UNAIR	UNHAS	✓	✓	✓	✓	✓	✓	✓	✓
UNAIR	ITS	✓	✓	✓	✓	✓	✓	✓	✓
UNDIP	UNPAD	-	-	-	-	-	✓	-	-

Tabel 4.12 *Post Hoc Test* MANOVA *One-Way* Jenis Ujian Soshum (lanjutan)

PTN		Y ₁	Y ₂	Y ₃	Y ₄	Y ₉	Y ₁₀	Y ₁₁	Y ₁₂	Y ₁₃
UGM	UPI	-	-	-	✓	✓	✓	-	-	-
UGM	UNAIR	-	-	✓	✓	-	-	-	-	-
UGM	UNDIP	✓	✓	✓	✓	✓	✓	-	✓	✓
UGM	UNPAD	✓	✓	✓	✓	✓	✓	✓	✓	✓
UGM	UNHAS	✓	✓	✓	✓	✓	✓	✓	✓	✓
UGM	ITS	✓	✓	✓	-	✓	✓	✓	✓	✓
ITB	IPB	-	-	-	-	-	-	-	-	-
ITB	USU	-	-	-	-	-	-	-	-	-
ITB	UPI	-	-	-	-	-	-	-	-	-
ITB	UNAIR	-	-	-	-	-	-	-	-	-
ITB	UNDIP	-	-	-	✓	-	-	-	-	-
ITB	UNPAD	✓	-	✓	✓	✓	✓	✓	-	-
ITB	UNHAS	✓	✓	✓	✓	✓	✓	✓	✓	✓
ITB	ITS	✓	✓	✓	✓	✓	✓	✓	✓	✓
IPB	USU	-	-	-	-	-	-	-	-	-
IPB	UPI	-	-	-	-	-	-	-	-	-
IPB	UNAIR	-	-	-	-	-	-	-	-	-
IPB	UNDIP	-	-	-	-	-	-	-	-	-
IPB	UNPAD	✓	✓	✓	✓	✓	-	-	-	-
IPB	UNHAS	✓	✓	✓	✓	✓	✓	✓	✓	✓
IPB	ITS	✓	✓	✓	-	✓	✓	✓	✓	✓
USU	UPI	-	-	-	-	✓	-	-	-	-
USU	UNAIR	-	-	✓	✓	-	-	-	-	✓
USU	UNDIP	✓	✓	✓	✓	✓	✓	-	✓	✓
USU	UNPAD	✓	✓	✓	✓	✓	✓	✓	✓	✓
USU	UNHAS	✓	✓	✓	✓	✓	✓	✓	✓	✓
USU	ITS	✓	✓	✓	-	✓	✓	✓	✓	✓
UPI	UNAIR	-	-	-	-	-	-	-	-	-
UPI	UNDIP	✓	✓	✓	✓	-	✓	✓	✓	✓
UPI	UNPAD	✓	✓	✓	✓	✓	✓	✓	✓	✓
UPI	UNHAS	✓	✓	✓	✓	✓	✓	✓	✓	✓
UPI	ITS	✓	✓	✓	-	✓	✓	✓	✓	✓
UNAIR	UNDIP	-	-	-	-	-	✓	-	-	-
UNAIR	UNPAD	✓	✓	-	✓	✓	✓	✓	✓	✓
UNAIR	UNHAS	✓	✓	✓	✓	✓	✓	✓	✓	✓
UNAIR	ITS	✓	✓	✓	-	✓	✓	✓	✓	-
UNDIP	UNPAD	✓	✓	✓	✓	✓	-	✓	✓	-

Tabel 4.12 *Post Hoc Test* MANOVA *One-Way* Jenis Ujian Soshum (lanjutan)

PTN		Y ₁	Y ₂	Y ₃	Y ₄	Y ₉	Y ₁₀	Y ₁₁	Y ₁₂	Y ₁₃
UNDIP	UNHAS	✓	✓	✓	✓	✓	✓	✓	✓	✓
UNDIP	ITS	✓	✓	✓	-	✓	✓	✓	-	-
UNPAD	UNHAS	✓	✓	-	✓	✓	✓	✓	✓	✓
UNPAD	ITS	✓	✓	-	-	✓	✓	✓	-	-
UNHAS	ITS	-	-	-	-	✓	-	-	-	-

Keterangan :

- ✓ : Ada perbedaan yang signifikan.
- : Tidak ada perbedaan yang signifikan.

Tabel 4.12 dan Lampiran 8b menunjukkan bahwa UNPAD, UNHAS, dan ITS merupakan PTN-BH yang memiliki perbedaan skor yang signifikan pada mata uji matematika soshum (Y₉) terhadap PTN-BH lainnya. Perbedaan rata-rata skor mata uji matematika soshum antara ITS dengan PTN-BH lainnya bertanda positif yang berarti rata-rata skor peminat ITS lebih tinggi daripada PTN-BH lainnya.

4.2.3 MANOVA *Two-Way*

Pada analisis MANOVA *two-way* dilakukan uji perbandingan interaksi antara PTN-BH dengan gelombang ujian. Struktur data untuk MANOVA *two-way* seperti pada Tabel 4.13.

Tabel 4.13 Struktur Data MANOVA *Two-Way* Interaksi Faktor PTN-BH Tujuan dan Gelombang Ujian

		Gelombang Ujian						
		B ₁			B ₂			
PTN-BH Tujuan	UI (1)	Y ₍₁₎₁₁₁	...	Y _{(1)1m1}	Y ₍₁₎₂₁₁	...	Y _{(1)2m1}	
		⋮	⋮	⋮	⋮	⋮	⋮	
	UGM (2)	Y _{(1)11n}	...	Y _{(1)1mn}	Y _{(1)21n}	...	Y _{(1)2mn}	
		Y ₍₂₎₁₁₁	...	Y _{(2)1m1}	Y ₍₂₎₂₁₁	...	Y _{(2)2m1}	
	⋮	⋮	⋮	⋮	⋮	⋮	⋮	
		Y _{(2)11n}	...	Y _{(2)1mn}	Y _{(2)21n}	...	Y _{(2)2mn}	
	ITS (11)	Y ₍₁₁₎₁₁₁	...	Y _{(11)1m1}	Y ₍₁₁₎₂₁₁	...	Y _{(11)2m1}	
		⋮	⋮	⋮	⋮	⋮	⋮	
			Y _{(11)11n}	...	Y _{(11)1mn}	Y _{(11)21n}	...	Y _{(11)2mn}

Indeks m sesuai banyaknya mata uji pada masing-masing jenis ujian. Indeks n sesuai banyaknya peserta pada masing-masing jenis ujian. Model MANOVA *two-way* dengan faktor PTN-BH tujuan, gelombang ujian, dan interaksi antara dua faktor tersebut dituliskan pada persamaan 4.2.

$$Y_{\ell kr} = \mu + \tau_{\ell} + \beta_k + \gamma_{\ell k} + e_{\ell kr} \quad (4.2)$$

$$\ell = 1, 2, \dots, 11; k = 1, 2; r = 1, 2, \dots, n$$

Vektor μ merupakan rata-rata keseluruhan kategori faktor, τ_{ℓ} merupakan rata-rata PTN-BH ke- ℓ , β_k merupakan rata-rata gelombang ke- k , $\gamma_{\ell k}$ merupakan rata-rata interaksi antara PTN-BH ke- ℓ dengan gelombang ke- k , dan $e_{\ell kr}$ merupakan eror sampel ke- r dari sebanyak n peserta. Indeks ℓ merupakan kategori faktor PTN-BH tujuan yaitu sebanyak sebelas PTN dan indeks k merupakan kategori faktor gelombang ujian. Berdasarkan model persamaan pada persamaan 4.2 maka didapatkan estimasi parameter untuk setiap mata uji sesuai jenis ujian. Tabel 4.14 berikut merupakan estimasi parameter untuk mata uji matematika saintek (Y_5) dan matematika soshum (Y_9).

Tabel 4.14 Estimasi Parameter Model MANOVA *Two-Way*

Parameter	Estimasi Parameter	
	Saintek (Y_5)	Soshum(Y_9)
Intersep	610,5	865,1
X_1 (UI)	-104,0	-358,9
X_1 (UGM)	-103,7	-365,0
X_1 (ITB)	-105,4	-350,6
X_1 (IPB)	-103,6	-357,3
X_1 (USU)	-101,2	-357,0
X_1 (UPI)	-102,2	-351,8
X_1 (UNAIR)	-96,2	-360,5
X_1 (UNDIP)	-92,9	-344,9
X_1 (UNPAD)	-90,9	-333,4
X_1 (UNHAS)	-72,1	-286,7
X_1 (ITS)	0	0
X_2 (1)	-37,2	6,3
X_2 (2)	0	0
X_1 (UI)* X_2 (1)	39,2	-8,6

Tabel 4.14 Estimasi Parameter Model MANOVA *Two-Way* (lanjutan)

Parameter	Estimasi Parameter	
	Saintek (Y_5)	Soshum(Y_9)
X_1 (UI)* X_2 (2)	0	0
X_1 (UGM)* X_2 (1)	35,2	-2,9
X_1 (UGM)* X_2 (2)	0	0
X_1 (ITB)* X_2 (1)	38,5	-28,9
X_1 (ITB)* X_2 (2)	0	0
X_1 (IPB)* X_2 (1)	36,8	-41,9
X_1 (IPB)* X_2 (2)	0	0
X_1 (USU)* X_2 (1)	36,1	-8,0
X_1 (USU)* X_2 (2)	0	0
X_1 (UPI)* X_2 (1)	37,2	-8,3
X_1 (UPI)* X_2 (2)	0	0
X_1 (UNAIR)* X_2 (1)	32,8	1,2
X_1 (UNAIR)* X_2 (2)	0	0
X_1 (UNDIP)* X_2 (1)	31,4	-8,9
X_1 (UNDIP)* X_2 (2)	0	0
X_1 (UNPAD)* X_2 (1)	37,1	-10,1
X_1 (UNPAD)* X_2 (2)	0	0
X_1 (UNHAS)* X_2 (1)	26,1	-22,8
X_1 (UNHAS)* X_2 (2)	0	0
X_1 (ITS)* X_2 (1)	0	0
X_1 (ITS)* X_2 (2)	0	0

Estimasi parameter model MANOVA *two-way* jenis ujian saintek menghasilkan bahwa peminat UI akan menurunkan skor matematika saintek sebesar 104,0 dibandingkan dengan peminat ITS dan variabel lainnya dianggap konstan. Peserta pada gelombang 1 akan menurunkan skor matematika saintek sebesar 37,2 dibandingkan dengan peserta gelombang 2 dan variabel lainnya dianggap konstan. Peminat UI gelombang 1 akan menaikkan skor matematika saintek sebesar 39,2 dibandingkan dengan peminat UI gelombang 2 dan variabel lainnya dianggap konstan. Begitu pula seterusnya untuk parameter yang lain. Estimasi parameter MANOVA *two-way* jenis ujian soshum analog dengan jenis ujian saintek. Estimasi parameter untuk mata uji yang lain dapat dilihat di Lampiran 9. Setelah mengetahui

model persamaan maka dilanjutkan uji perbandingan antar PTN-BH, gelombang ujian, dan interaksi antara keduanya dengan hasil perhitungan statistik uji pada Tabel 4.15.

Tabel 4.15 MANOVA *Two-Way*

Jenis Ujian	Faktor	F	P-Value	$F_{s(2m+s+1),s(2N+s+1)}(\alpha)$
Saintek	X_1	50,8	0,0	$F_{(80),(308.368)}(\alpha) = 1,3$
	X_2	4,0	0,0	$F_{(8),(38.539)}(\alpha) = 1,9$
	$X_1 * X_2$	2,4	0,0	$F_{(80),(308.368)}(\alpha) = 1,3$
Soshum	X_1	37,1	0,0	$F_{(90),(273.312)}(\alpha) = 1,3$
	X_2	1,1	0,3	$F_{(9),(30.360)}(\alpha) = 1,9$
	$X_1 * X_2$	1,1	0,2	$F_{(90),(273.312)}(\alpha) = 1,3$

Hipotesis nol dari analisis MANOVA *two-way* ini adalah tidak ada perbedaan rata-rata antar PTN-BH tujuan, gelombang ujian, dan interaksi. Berdasarkan Tabel 4.15, diperoleh keputusan untuk jenis ujian saintek yaitu tolak H_0 pada ketiga faktor karena $F \geq F_{s(2m+s+1),s(2N+s+1)}(\alpha)$ dan $p\text{-value} < \alpha$ sehingga kesimpulannya adalah terdapat perbedaan rata-rata skor peserta jenis ujian saintek pada faktor PTN-BH tujuan (X_1), gelombang ujian (X_2), dan interaksi ($X_1 * X_2$). Maka dari itu, jenis ujian saintek dapat dilanjutkan ke *Post Hoc* Test. Keputusan untuk jenis ujian soshum yaitu tolak H_0 pada faktor PTN-BH tujuan (X_1) dan gagal tolak H_0 pada faktor gelombang ujian (X_2) dan interaksi ($X_1 * X_2$). Kesimpulan uji perbandingan pada jenis ujian soshum adalah hanya terdapat perbedaan pada faktor PTN-BH, maka *Post Hoc Test* MANOVA *two-way* jenis ujian soshum sama dengan MANOVA *one-way*.

Tabel 4.16 *Post Hoc Test* MANOVA *Two-Way* Jenis Ujian Saintek

Faktor	Y_1	Y_2	Y_3	Y_4	Y_5	Y_6	Y_7	Y_8
PTN								
UI	UGM	-	-	-	-	-	-	-
UI	ITB	-	-	-	-	-	-	-
UI	IPB	-	-	-	-	-	-	-
UI	USU	-	-	-	-	-	-	-
UI	UPI	-	-	-	-	-	-	-
UI	UNAIR	-	-	-	-	-	-	✓

Tabel 4.16 *Post Hoc Test* MANOVA *Two-Way* Jenis Ujian Saintek (lanjutan)

Faktor		Y ₁	Y ₂	Y ₃	Y ₄	Y ₅	Y ₆	Y ₇	Y ₈
PTN									
UI	UNDIP	✓	✓	✓	✓	-	✓	✓	✓
UI	UNPAD	✓	✓	✓	✓	✓	✓	✓	✓
UI	UNHAS	✓	✓	✓	✓	✓	✓	✓	✓
UI	ITS	✓	✓	✓	✓	✓	✓	✓	✓
UGM	ITB	-	-	-	-	-	-	-	-
UGM	IPB	-	-	-	-	-	-	-	-
UGM	USU	-	-	-	-	-	-	-	-
UGM	UPI	-	-	-	-	-	✓	-	-
UGM	UNAIR	-	✓	-	-	-	✓	-	✓
UGM	UNDIP	✓	✓	✓	✓	✓	✓	✓	✓
UGM	UNPAD	✓	✓	✓	✓	✓	✓	✓	✓
UGM	UNHAS	✓	✓	✓	✓	✓	✓	✓	✓
UGM	ITS	✓	✓	✓	✓	✓	✓	✓	✓
ITB	IPB	-	-	-	-	-	-	-	-
ITB	USU	-	-	-	-	-	-	-	-
ITB	UPI	-	-	-	-	-	-	-	-
ITB	UNAIR	-	-	-	-	-	-	-	✓
ITB	UNDIP	✓	✓	✓	✓	-	✓	-	✓
ITB	UNPAD	✓	✓	✓	✓	✓	✓	✓	✓
ITB	UNHAS	✓	✓	✓	✓	✓	✓	✓	✓
ITB	ITS	✓	✓	✓	✓	✓	✓	✓	✓
IPB	USU	-	-	-	-	-	-	-	-
IPB	UPI	-	-	-	-	-	-	-	-
IPB	UNAIR	-	-	-	-	-	-	-	✓
IPB	UNDIP	✓	✓	✓	✓	✓	✓	✓	✓
IPB	UNPAD	✓	✓	✓	✓	✓	✓	✓	✓
IPB	UNHAS	✓	✓	✓	✓	✓	✓	✓	✓
IPB	ITS	✓	✓	✓	✓	✓	✓	✓	✓
USU	UPI	-	-	-	-	-	-	-	-
USU	UNAIR	-	-	-	-	-	-	-	-
USU	UNDIP	✓	✓	✓	✓	-	✓	-	✓
USU	UNPAD	✓	✓	✓	✓	✓	✓	✓	✓
USU	UNHAS	✓	✓	✓	✓	✓	✓	✓	✓
USU	ITS	✓	✓	✓	✓	✓	✓	✓	✓
UPI	UNAIR	-	-	-	-	-	-	-	-
UPI	UNDIP	-	✓	✓	-	-	-	✓	✓

Tabel 4.16 *Post Hoc Test* MANOVA *Two-Way* Jenis Ujian Saintek (lanjutan)

Faktor		Y ₁	Y ₂	Y ₃	Y ₄	Y ₅	Y ₆	Y ₇	Y ₈
PTN									
ITB*2	ITS*2	✓	✓	-	✓	✓	✓	✓	✓
IPB*2	USU*2	✓	✓	✓	✓	✓	✓	✓	✓
IPB*2	UPI*2	✓	✓	✓	✓	✓	-	✓	✓
IPB*2	UNAIR*2	-	-	-	-	-	-	-	-
IPB*2	UNDIP*2	✓	✓	-	-	-	✓	✓	✓
IPB*2	UNPAD*2	-	-	✓	-	-	-	-	-
IPB*2	UNHAS*2	✓	✓	✓	✓	✓	✓	✓	✓
IPB*2	ITS*2	✓	✓	✓	✓	✓	✓	✓	✓
USU*2	UPI*2	✓	-	✓	✓	-	-	-	-
USU*2	UNAIR*2	✓	✓	✓	✓	✓	-	✓	✓
USU*2	UNDIP*2	✓	✓	✓	✓	✓	✓	✓	✓
USU*2	UNPAD*2	✓	✓	✓	✓	✓	✓	✓	✓
USU*2	UNHAS*2	✓	✓	✓	✓	-	✓	✓	✓
USU*2	ITS*2	✓	✓	✓	✓	✓	✓	✓	✓
UPI*2	UNAIR*2	-	✓	-	-	-	-	✓	✓
UPI*2	UNDIP*2	✓	✓	✓	✓	✓	✓	✓	✓
UPI*2	UNPAD*2	✓	✓	✓	✓	✓	✓	✓	✓
UPI*2	UNHAS*2	✓	✓	✓	✓	✓	✓	✓	✓
UPI*2	ITS*2	✓	✓	✓	✓	✓	✓	✓	✓
UNAIR*2	UNDIP*2	✓	✓	✓	✓	-	✓	-	-
UNAIR*2	UNPAD*2	-	-	-	-	-	-	-	-
UNAIR*2	UNHAS*2	✓	✓	✓	✓	✓	✓	✓	✓
UNAIR*2	ITS*2	✓	✓	✓	✓	✓	✓	✓	✓
UNDIP*2	UNPAD*2	✓	✓	✓	-	-	-	-	✓
UNDIP*2	UNHAS*2	✓	✓	✓	✓	✓	✓	✓	✓
UNDIP*2	ITS*2	✓	✓	-	✓	✓	✓	✓	-
UNPAD*2	UNHAS*2	✓	✓	✓	✓	✓	✓	✓	✓
UNPAD*2	ITS*2	✓	✓	✓	✓	-	✓	✓	✓
UNHAS*2	ITS*2	✓	✓	✓	✓	✓	✓	✓	✓

Keterangan :

- ✓ : Ada perbedaan yang signifikan.
- : Tidak ada perbedaan yang signifikan.

Dari Tabel 4.16 dan Lampiran 11 faktor PTN-BH tujuan, dapat diketahui bahwa UNHAS dan ITS merupakan PTN-BH yang memiliki perbedaan rata-rata skor yang signifikan terhadap

PTN-BH lain karena dalam interval batas bawah dan batas atas tidak memuat nilai nol. Beberapa PTN-BH tidak memiliki perbedaan dengan PTN-BH lainnya karena dalam interval batas bawah dan batas atas memuat nilai nol. Perbedaan rata-rata skor antara peminat ITS dengan PTN-BH lainnya bertanda positif pada semua mata uji jenis ujian saintek. Hal ini dapat diartikan bahwa ITS memiliki skor tertinggi pada semua mata uji jenis ujian saintek.

Pada faktor gelombang ujian, terdapat perbedaan rata-rata skor yang signifikan pada mata uji penalaran umum (Y_1), kemampuan memahami bacaan dan menulis (Y_4), matematika saintek (Y_5), kimia (Y_7), dan biologi (Y_8). Hal ini dikarenakan dalam interval batas bawah dan batas atas tidak memuat nilai nol. Perbedaan rata-rata antara gelombang 1 dengan 2 bertanda negatif yang berarti rata-rata skor semua mata uji jenis ujian saintek gelombang 1 lebih rendah daripada gelombang 2.

Pada faktor interaksi, terdapat perbedaan rata-rata antara gelombang 1 dengan gelombang 2 di PTN-BH yang sama pada beberapa mata uji. Terdapat perbedaan rata-rata skor yang signifikan antara ITS gelombang 1 dengan ITS gelombang 2 pada mata uji penalaran umum (Y_1), pengetahuan dan pemahaman umum (Y_3), kemampuan memahami bacaan dan menulis (Y_4), dan fisika (Y_6). Hal ini dikarenakan dalam interval batas bawah dan batas atas tidak memuat nilai nol. Perbedaan rata-rata skor antara gelombang 1 dengan gelombang 2 di ITS bernilai positif pada empat mata uji tersebut maka rata-rata skor peminat ITS gelombang 1 lebih tinggi daripada gelombang 2 pada mata uji penalaran umum, pengetahuan dan pemahaman umum, kemampuan memahami bacaan dan menulis, dan fisika. Jika rata-rata skor peminat antar PTN-BH pada gelombang 1 dibandingkan, maka terdapat perbedaan rata-rata skor antara ITS dengan ITB, IPB, USU, UPI, UNAIR, UNPAD, dan UNHAS pada semua mata uji. Rata-rata skor ITS lebih rendah daripada ITB pada gelombang 1. Tidak terdapat perbedaan rata-rata skor antara ITS dengan UGM pada gelombang 1 di semua mata uji.

Jika rata-rata skor peminat PTN-BH gelombang 2 dibandingkan, maka diperoleh hasil yang hampir sama dengan gelombang 1. Terdapat perbedaan rata-rata antara ITS dengan IPB, USU, UPI, dan UNHAS pada gelombang 2 di semua mata uji. Rata-rata skor peminat ITS gelombang 2 lebih tinggi daripada empat PTN-BH tersebut. Tidak terdapat perbedaan rata-rata skor antara ITS dengan UI dan UGM pada gelombang 2 di semua mata uji.

BAB V

KESIMPULAN DAN SARAN

5.1 Kesimpulan

Kesimpulan yang dapat diambil dari hasil analisis penelitian ini adalah sebagai berikut.

1. Karakteristik data skor setiap mata uji jenis ujian saintek dan soshum menunjukkan persebaran nilai yang tidak jauh berbeda satu dengan yang lainnya dan terdapat outlier pada semua mata uji namun tidak pada batas bawah mata uji TPS Pengetahuan Kuantitatif. Universitas Hasanuddin memiliki peminat terbanyak pada jenis ujian tulis saintek dan Universitas Pendidikan Indonesia memiliki peminat terbanyak pada jenis ujian tulis soshum. Terdapat keberagaman kualitas calon mahasiswa baru pada masing-masing PTN-BH dengan perbedaan rata-rata yang kecil. Calon mahasiswa baru pada Universitas Indonesia memiliki kualitas yang hampir sama. Institut Teknologi Sepuluh Nopember memiliki rata-rata skor tertinggi daripada sepuluh PTN-BH lainnya. Peserta ujian tulis gelombang 1 lebih banyak daripada gelombang 2 pada jenis ujian saintek maupun soshum. Keberagaman skor peserta ujian tulis merata pada kedua gelombang ujian dengan perbedaan rata-rata yang kecil. Sebelas PTN-BH memiliki pola persebaran skor ujian tulis yang hampir sama pada gelombang 1 dan 2.
2. Uji perbandingan skor ujian tulis antar PTN-BH memberikan hasil bahwa terdapat perbedaan rata-rata skor ujian tulis antar PTN-BH pada jenis ujian saintek maupun soshum. PTN-BH memiliki rata-rata skor tertinggi adalah Institut Teknologi Sepuluh Nopember. Uji perbandingan skor ujian tulis antar gelombang ujian memberikan hasil bahwa terdapat perbedaan rata-rata skor ujian tulis pada jenis ujian saintek sedangkan pada jenis ujian soshum tidak

terdapat perbedaan. Rata-rata skor semua mata uji jenis ujian saintek gelombang 1 lebih rendah daripada gelombang 2. Uji perbandingan skor ujian tulis berdasarkan interaksi antara PTN-BH tujuan dan gelombang ujian memberikan hasil bahwa terdapat perbedaan rata-rata skor ujian tulis antar kategori interaksi pada jenis ujian saintek sedangkan pada jenis ujian soshum tidak terdapat perbedaan. Pada jenis ujian saintek, tidak terdapat perbedaan rata-rata skor yang signifikan pada faktor gelombang ujian pada mata uji pengetahuan kuantitatif, pengetahuan dan pemahaman umum, dan fisika serta tidak terdapat perbedaan rata-rata skor yang signifikan pada faktor interaksi pada mata uji pemahaman umum. Jika rata-rata skor peminat antar PTN-BH pada gelombang 1 dibandingkan, maka rata-rata skor ITS lebih rendah daripada ITB pada gelombang 1. Jika rata-rata skor peminat PTN-BH gelombang 2 dibandingkan, maka diperoleh hasil yang hampir sama dengan gelombang 1 dan rata-rata skor peminat ITS gelombang 2 lebih tinggi daripada IPB, USU, UPI, dan UNHAS.

5.2 Saran

Saran untuk panitia penyelenggara seleksi masuk PTN ujian tulis adalah ujian tulis sebaiknya dilakukan hanya sekali karena hasil dari penelitian ini menunjukkan antara gelombang 1 dengan gelombang 2 memiliki skor yang tidak jauh berbeda pada sebagian besar mata uji. Saran untuk penelitian berikutnya adalah memperbanyak faktor yang diduga memengaruhi kualitas calon mahasiswa baru.

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LAMPIRAN

Lampiran 1 Data Penelitian

a. Saintek

No.	Y ₁	Y ₂	Y ₃	Y ₄	Y ₅	Y ₆	Y ₇	Y ₈	X ₁	X ₂
1	622	648	711	670	359	639	661	688	1	1
2	663	774	641	721	441	433	353	447	1	1
3	522	466	526	546	532	428	357	439	1	1
4	280	437	475	357	431	545	453	495	1	1
5	491	411	599	295	593	498	361	431	1	1
⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮
35.368	495	572	492	653	397	410	533	527	11	2

b. Soshum

No.	Y ₁	Y ₂	Y ₃	Y ₄	Y ₉	Y ₁₀	Y ₁₁	Y ₁₂	Y ₁₃	X ₁	X ₂
1	481	402	503	369	725	396	341	396	383	1	1
2	517	358	504	546	417	382	424	645	465	1	1
3	579	543	485	530	579	544	451	389	487	1	1
4	433	390	695	606	588	614	554	500	601	1	1
5	598	398	407	510	436	532	528	595	616	1	1
⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮
30.390	490	502	504	480	466	487	502	507	528	11	2

Lampiran 2 Korelasi Antar Mata Uji

a. Saintek

		Correlations							
		Y1	Y2	Y3	Y4	Y5	Y6	Y7	Y8
Y1	Pearson Correlation	1	.567	.528	.641	.177	.326	.409	.387
	Sig. (2-tailed)		.000	.000	.000	.000	.000	.000	.000
Y2	Pearson Correlation	.567	1	.366	.472	.208	.363	.444	.388
	Sig. (2-tailed)	.000		.000	.000	.000	.000	.000	.000
Y3	Pearson Correlation	.528	.366	1	.427	.100	.215	.257	.275
	Sig. (2-tailed)	.000	.000		.000	.000	.000	.000	.000
Y4	Pearson Correlation	.641	.472	.427	1	.152	.285	.353	.346
	Sig. (2-tailed)	.000	.000	.000		.000	.000	.000	.000
Y5	Pearson Correlation	.177	.208	.100	.152	1	.165	.201	.132
	Sig. (2-tailed)	.000	.000	.000	.000		.000	.000	.000
Y6	Pearson Correlation	.326	.363	.215	.285	.165	1	.336	.256
	Sig. (2-tailed)	.000	.000	.000	.000	.000		.000	.000
Y7	Pearson Correlation	.409	.444	.257	.353	.201	.336	1	.334
	Sig. (2-tailed)	.000	.000	.000	.000	.000	.000		.000
Y8	Pearson Correlation	.387	.388	.275	.346	.132	.256	.334	1
	Sig. (2-tailed)	.000	.000	.000	.000	.000	.000	.000	

** . Correlation is significant at the 0.01 level (2-tailed).

b. Soshum

		Correlations								
		Y1	Y2	Y3	Y4	Y5	Y6	Y7	Y8	Y9
Y1	Pearson Correlation	1	.420	.495	.583	.114	.423	.338	.312	.420
	Sig. (2-tailed)		.000	.000	.000	.000	.000	.000	.000	.000
Y2	Pearson Correlation	.420	1	.250	.342	.104	.305	.244	.210	.257
	Sig. (2-tailed)	.000		.000	.000	.000	.000	.000	.000	.000
Y3	Pearson Correlation	.495	.250	1	.395	.067	.285	.236	.230	.304
	Sig. (2-tailed)	.000	.000		.000	.000	.000	.000	.000	.000
Y4	Pearson Correlation	.583	.342	.395	1	.069	.317	.310	.276	.384
	Sig. (2-tailed)	.000	.000	.000		.000	.000	.000	.000	.000
Y5	Pearson Correlation	.114	.104	.067	.069	1	.092	.068	.042	.083
	Sig. (2-tailed)	.000	.000	.000	.000		.000	.000	.000	.000
Y6	Pearson Correlation	.423	.305	.285	.317	.092	1	.338	.346	.367
	Sig. (2-tailed)	.000	.000	.000	.000	.000		.000	.000	.000
Y7	Pearson Correlation	.338	.244	.236	.310	.068	.338	1	.251	.350
	Sig. (2-tailed)	.000	.000	.000	.000	.000	.000		.000	.000
Y8	Pearson Correlation	.312	.210	.230	.276	.042	.346	.251	1	.298
	Sig. (2-tailed)	.000	.000	.000	.000	.000	.000	.000		.000
Y9	Pearson Correlation	.420	.257	.304	.384	.083	.367	.350	.298	1
	Sig. (2-tailed)	.000	.000	.000	.000	.000	.000	.000	.000	

** . Correlation is significant at the 0.01 level (2-tailed).

Lampiran 3 Output Uji Asumsi Dependen

a. Saintek

b. Soshum

KMO and Bartlett's Test			KMO and Bartlett's Test		
Kaiser-Meyer-Olkin Measure of Sampling Adequacy.		.864	Kaiser-Meyer-Olkin Measure of Sampling Adequacy.		.868
Bartlett's Test of Sphericity	Approx. Chi-Square	80844.035	Bartlett's Test of Sphericity	Approx. Chi-Square	57920.598
	Df	28		df	36
	Sig.	.000		Sig.	.000

Lampiran 4 Output Uji Asumsi Distribusi Normal Multivariat

a. Saintek

b. Soshum

Correlations				Correlations			
		Mahalanobis Distance	Qi			Mahalanobis Distance	qi
Mahalanobis Distance	Pearson Correlation	1	.998**	Mahalanobis Distance	Pearson Correlation	1	.996**
	Sig. (2-tailed)		.000		Sig. (2-tailed)		.000
	N	38568	38568		N	30390	30390
Qi	Pearson Correlation	.998**	1	Qi	Pearson Correlation	.996**	1
	Sig. (2-tailed)	.000			Sig. (2-tailed)	.000	
	N	38568	38568		N	30390	30390

**. Correlation is significant at the 0.01 level (2-tailed).

**. Correlation is significant at the 0.01 level (2-tailed).

Lampiran 5 Output Uji Asumsi Homogenitas Matriks Varians Kovarians (PTN-BH Tujuan – Kelompok Ujian – Interaksi)

a. Saintek

Box's Test of Equality of Covariance Matrices ^a		Box's Test of Equality of Covariance Matrices ^a		Box's Test of Equality of Covariance Matrices ^a	
Box's M	56778.691	Box's M	654.834	Box's M	57453.068
F	157.535	F	18.186	F	75.820
df1	360	df1	36	df1	756
df2	351706396.879	df2	3952694700.132	df2	158432783.161
Sig.	.000	Sig.	.000	Sig.	.000

b. Soshum

Box's Test of Equality of Covariance Matrices ^a		Box's Test of Equality of Covariance Matrices ^a		Box's Test of Equality of Covariance Matrices ^a	
Box's M	46095.557	Box's M	540.689	Box's M	46896.529
F	100.876	F	12.011	F	47.752
df1	450	df1	45	df1	945
df2	602673.026	df2	2656101921.403	df2	178599.060
Sig.	.000	Sig.	.000	Sig.	.000

Lampiran 6 Estimasi Parameter MANOVA *One-Way*

a. Saintek

		Parameter Estimates					
Dependent Variable	Parameter	B	Std. Error	t	Sig.	95% Confidence Interval	
						Lower Bound	Upper Bound
Y1	Intercept	579.883	2.138	271.208	.000	575.692	584.074
	[kode_ptn=1]	-57.015	3.030	-18.814	.000	-62.955	-51.075
	[kode_ptn=2]	-56.990	2.759	-20.655	.000	-62.398	-51.582
	[kode_ptn=3]	-58.216	3.579	-16.264	.000	-65.232	-51.200
	[kode_ptn=4]	-57.435	2.808	-20.452	.000	-62.939	-51.931
	[kode_ptn=5]	-54.230	2.573	-21.078	.000	-59.273	-49.187
	[kode_ptn=6]	-53.000	2.779	-19.071	.000	-58.447	-47.553
	[kode_ptn=7]	-50.368	3.357	-15.005	.000	-56.947	-43.789
	[kode_ptn=8]	-45.147	2.607	-17.315	.000	-50.258	-40.037
	[kode_ptn=9]	-40.620	2.714	-14.967	.000	-45.940	-35.301
	[kode_ptn=10]	-26.488	2.379	-11.133	.000	-31.151	-21.825
	[kode_ptn=11]	0 ^a	.	.	.	.	.
Y2	Intercept	606.457	2.350	258.059	.000	601.850	611.063
	[kode_ptn=1]	-83.223	3.331	-24.986	.000	-89.751	-76.694
	[kode_ptn=2]	-85.648	3.033	-28.243	.000	-91.592	-79.704
	[kode_ptn=3]	-85.519	3.934	-21.737	.000	-93.230	-77.808
	[kode_ptn=4]	-85.367	3.087	-27.657	.000	-91.417	-79.317
	[kode_ptn=5]	-81.287	2.828	-28.745	.000	-86.829	-75.744
	[kode_ptn=6]	-76.695	3.054	-25.109	.000	-82.682	-70.708
	[kode_ptn=7]	-73.143	3.689	-19.825	.000	-80.375	-65.912
	[kode_ptn=8]	-67.118	2.866	-23.420	.000	-72.735	-61.501
	[kode_ptn=9]	-61.172	2.983	-20.507	.000	-67.018	-55.325
	[kode_ptn=10]	-41.407	2.615	-15.835	.000	-46.533	-36.282
	[kode_ptn=11]	0 ^a	.	.	.	.	.
Y3	Intercept	551.540	1.849	298.317	.000	547.916	555.163
	[kode_ptn=1]	-35.666	2.620	-13.611	.000	-40.802	-30.530
	[kode_ptn=2]	-36.364	2.386	-15.242	.000	-41.040	-31.688
	[kode_ptn=3]	-38.426	3.095	-12.415	.000	-44.493	-32.360
	[kode_ptn=4]	-37.325	2.428	-15.371	.000	-42.085	-32.566
	[kode_ptn=5]	-34.585	2.225	-15.546	.000	-38.945	-30.224
	[kode_ptn=6]	-34.002	2.403	-14.150	.000	-38.712	-29.292
	[kode_ptn=7]	-29.918	2.903	-10.307	.000	-35.607	-24.229
	[kode_ptn=8]	-26.178	2.255	-11.611	.000	-30.597	-21.759
	[kode_ptn=9]	-23.751	2.347	-10.121	.000	-28.351	-19.152
	[kode_ptn=10]	-12.237	2.057	-5.948	.000	-16.269	-8.205
	[kode_ptn=11]	0 ^a	.	.	.	.	.
Y4	Intercept	591.447	2.135	276.961	.000	587.261	595.633
	[kode_ptn=1]	-71.082	3.027	-23.485	.000	-77.014	-65.150
	[kode_ptn=2]	-73.130	2.756	-26.538	.000	-78.531	-67.728
	[kode_ptn=3]	-71.330	3.575	-19.953	.000	-78.337	-64.323
	[kode_ptn=4]	-70.769	2.805	-25.231	.000	-76.266	-65.271
	[kode_ptn=5]	-67.482	2.570	-26.261	.000	-72.518	-62.445
	[kode_ptn=6]	-65.557	2.776	-23.619	.000	-70.997	-60.117
	[kode_ptn=7]	-66.519	3.353	-19.841	.000	-73.090	-59.948
	[kode_ptn=8]	-57.951	2.604	-22.254	.000	-63.055	-52.847
	[kode_ptn=9]	-52.313	2.711	-19.300	.000	-57.625	-47.000
	[kode_ptn=10]	-34.224	2.376	-14.403	.000	-38.881	-29.566
	[kode_ptn=11]	0 ^a	.	.	.	.	.

Y5	Intercept	588.215	2.008	292.974	.000	584.280	592.150
	[kode_ptn=1]	-80.610	2.846	-28.328	.000	-86.187	-75.033
	[kode_ptn=2]	-82.695	2.591	-31.919	.000	-87.773	-77.617
	[kode_ptn=3]	-82.426	3.361	-24.524	.000	-89.014	-75.838
	[kode_ptn=4]	-81.547	2.637	-30.924	.000	-86.716	-76.379
	[kode_ptn=5]	-79.560	2.416	-32.932	.000	-84.296	-74.825
	[kode_ptn=6]	-79.968	2.610	-30.644	.000	-85.082	-74.853
	[kode_ptn=7]	-76.681	3.152	-24.327	.000	-82.859	-70.503
	[kode_ptn=8]	-74.228	2.448	-30.318	.000	-79.026	-69.429
	[kode_ptn=9]	-68.647	2.548	-26.937	.000	-73.641	-63.652
	[kode_ptn=10]	-56.100	2.234	-25.111	.000	-60.478	-51.721
	[kode_ptn=11]	0 ^a	.	.	.	.	.
Y6	Intercept	586.122	2.071	283.056	.000	582.063	590.180
	[kode_ptn=1]	-81.413	2.935	-27.740	.000	-87.165	-75.661
	[kode_ptn=2]	-83.876	2.672	-31.390	.000	-89.113	-78.639
	[kode_ptn=3]	-79.688	3.466	-22.988	.000	-86.483	-72.894
	[kode_ptn=4]	-81.444	2.720	-29.946	.000	-86.775	-76.113
	[kode_ptn=5]	-77.119	2.492	-30.951	.000	-82.003	-72.236
	[kode_ptn=6]	-74.251	2.691	-27.589	.000	-79.527	-68.976
	[kode_ptn=7]	-72.720	3.251	-22.369	.000	-79.092	-66.348
	[kode_ptn=8]	-68.669	2.525	-27.195	.000	-73.619	-63.720
	[kode_ptn=9]	-59.067	2.628	-22.474	.000	-64.219	-53.916
	[kode_ptn=10]	-45.448	2.304	-19.725	.000	-49.964	-40.932
	[kode_ptn=11]	0 ^a	.	.	.	.	.
Y7	Intercept	583.614	2.276	256.375	.000	579.153	588.076
	[kode_ptn=1]	-79.803	3.226	-24.734	.000	-86.127	-73.479
	[kode_ptn=2]	-78.472	2.937	-26.714	.000	-84.230	-72.714
	[kode_ptn=3]	-76.578	3.811	-20.095	.000	-84.047	-69.109
	[kode_ptn=4]	-78.241	2.990	-26.169	.000	-84.101	-72.381
	[kode_ptn=5]	-72.960	2.739	-26.636	.000	-78.329	-67.592
	[kode_ptn=6]	-74.285	2.959	-25.107	.000	-80.084	-68.486
	[kode_ptn=7]	-69.644	3.574	-19.487	.000	-76.649	-62.639
	[kode_ptn=8]	-65.784	2.776	-23.698	.000	-71.225	-60.343
	[kode_ptn=9]	-61.580	2.889	-21.312	.000	-67.243	-55.916
	[kode_ptn=10]	-46.470	2.533	-18.346	.000	-51.435	-41.505
	[kode_ptn=11]	0 ^a	.	.	.	.	.
Y8	Intercept	564.000	1.968	286.658	.000	560.144	567.856
	[kode_ptn=1]	-61.196	2.789	-21.945	.000	-66.662	-55.730
	[kode_ptn=2]	-62.063	2.539	-24.445	.000	-67.039	-57.087
	[kode_ptn=3]	-60.986	3.294	-18.516	.000	-67.442	-54.530
	[kode_ptn=4]	-59.074	2.584	-22.860	.000	-64.139	-54.009
	[kode_ptn=5]	-55.143	2.368	-23.292	.000	-59.784	-50.503
	[kode_ptn=6]	-54.938	2.557	-21.483	.000	-59.950	-49.926
	[kode_ptn=7]	-46.615	3.089	-15.091	.000	-52.669	-40.560
	[kode_ptn=8]	-46.380	2.399	-19.331	.000	-51.083	-41.677
	[kode_ptn=9]	-47.884	2.497	-19.174	.000	-52.779	-42.989
	[kode_ptn=10]	-32.129	2.189	-14.676	.000	-36.420	-27.838
	[kode_ptn=11]	0 ^a	.	.	.	.	.

a. This parameter is set to zero because it is redundant.

b. Soshum

Parameter Estimates

Dependent Variable	Parameter	B	Std. Error	t	Sig.	95% Confidence Interval	
						Lower Bound	Upper Bound
Y1	Intercept	578.129	11.438	50.544	.000	555.710	600.548

	[kode_ptn=1]	-77.959	11.548	-6.751	.000	-100.594	-55.324
	[kode_ptn=2]	-77.800	11.613	-6.700	.000	-100.561	-55.039
	[kode_ptn=3]	-76.874	14.615	-5.260	.000	-105.520	-48.228
	[kode_ptn=4]	-85.752	16.242	-5.280	.000	-117.587	-53.917
	[kode_ptn=5]	-77.310	11.535	-6.702	.000	-99.919	-54.702
	[kode_ptn=6]	-75.667	11.476	-6.594	.000	-98.160	-53.175
	[kode_ptn=7]	-68.954	11.715	-5.886	.000	-91.917	-45.992
	[kode_ptn=8]	-65.723	11.558	-5.686	.000	-88.377	-43.069
	[kode_ptn=9]	-54.372	11.526	-4.717	.000	-76.963	-31.781
	[kode_ptn=10]	-38.120	11.536	-3.305	.001	-60.730	-15.509
	[kode_ptn=11]	0 ^a	.	.	.	.	.
Y2	Intercept	596.468	11.356	52.525	.000	574.210	618.726
	[kode_ptn=1]	-106.599	11.465	-9.298	.000	-129.071	-84.128
	[kode_ptn=2]	-105.160	11.529	-9.121	.000	-127.757	-82.562
	[kode_ptn=3]	-101.498	14.510	-6.995	.000	-129.939	-73.058
	[kode_ptn=4]	-114.419	16.125	-7.096	.000	-146.025	-82.812
	[kode_ptn=5]	-108.563	11.452	-9.480	.000	-131.009	-86.117
	[kode_ptn=6]	-104.980	11.393	-9.214	.000	-127.312	-82.649
	[kode_ptn=7]	-102.335	11.631	-8.798	.000	-125.132	-79.537
	[kode_ptn=8]	-96.545	11.475	-8.413	.000	-119.036	-74.053
	[kode_ptn=9]	-85.436	11.443	-7.466	.000	-107.865	-63.008
	[kode_ptn=10]	-57.398	11.453	-5.012	.000	-79.845	-34.950
	[kode_ptn=11]	0 ^a	.	.	.	.	.
Y3	Intercept	564.000	10.686	52.781	.000	543.056	584.944
	[kode_ptn=1]	-60.314	10.788	-5.591	.000	-81.459	-39.169
	[kode_ptn=2]	-60.015	10.849	-5.532	.000	-81.279	-38.752
	[kode_ptn=3]	-61.459	13.654	-4.501	.000	-88.221	-34.698
	[kode_ptn=4]	-67.590	15.173	-4.454	.000	-97.331	-37.850
	[kode_ptn=5]	-58.940	10.776	-5.470	.000	-80.061	-37.818
	[kode_ptn=6]	-55.989	10.721	-5.223	.000	-77.002	-34.976
	[kode_ptn=7]	-49.635	10.944	-4.535	.000	-71.087	-28.184
	[kode_ptn=8]	-48.911	10.798	-4.530	.000	-70.074	-27.747
	[kode_ptn=9]	-40.742	10.767	-3.784	.000	-61.846	-19.637
	[kode_ptn=10]	-33.990	10.777	-3.154	.002	-55.113	-12.867
	[kode_ptn=11]	0 ^a	.	.	.	.	.
Y4	Intercept	572.871	12.918	44.345	.000	547.550	598.192
	[kode_ptn=1]	-63.352	13.043	-4.857	.000	-88.916	-37.788
	[kode_ptn=2]	-64.983	13.116	-4.955	.000	-90.690	-39.276
	[kode_ptn=3]	-68.351	16.507	-4.141	.000	-100.704	-35.997
	[kode_ptn=4]	-65.346	18.344	-3.562	.000	-101.302	-29.391
	[kode_ptn=5]	-62.068	13.028	-4.764	.000	-87.603	-36.534
	[kode_ptn=6]	-58.343	12.961	-4.501	.000	-83.746	-32.939
	[kode_ptn=7]	-48.320	13.232	-3.652	.000	-74.255	-22.386
	[kode_ptn=8]	-45.324	13.054	-3.472	.001	-70.911	-19.738
	[kode_ptn=9]	-34.376	13.017	-2.641	.008	-59.890	-8.861
	[kode_ptn=10]	-11.723	13.029	-.900	.368	-37.260	13.814
	[kode_ptn=11]	0 ^a	.	.	.	.	.
Y9	Intercept	867.532	13.501	64.258	.000	841.070	893.995
	[kode_ptn=1]	-362.705	13.631	-26.610	.000	-389.422	-335.989
	[kode_ptn=2]	-365.465	13.707	-26.663	.000	-392.331	-338.599
	[kode_ptn=3]	-364.828	17.251	-21.149	.000	-398.640	-331.016
	[kode_ptn=4]	-368.467	19.171	-19.220	.000	-406.043	-330.890
	[kode_ptn=5]	-360.368	13.615	-26.469	.000	-387.053	-333.682
	[kode_ptn=6]	-355.408	13.545	-26.239	.000	-381.957	-328.859
	[kode_ptn=7]	-358.577	13.828	-25.931	.000	-385.680	-331.473

	[kode_ptn=8]	-348.970	13.642	-25.580	.000	-375.709	-322.230
	[kode_ptn=9]	-338.059	13.604	-24.850	.000	-364.724	-311.394
	[kode_ptn=10]	-297.846	13.616	-21.875	.000	-324.534	-271.158
	[kode_ptn=11]	0 ^a					
Y10	Intercept	615.790	12.182	50.551	.000	591.914	639.667
	[kode_ptn=1]	-107.721	12.299	-8.759	.000	-131.827	-83.615
	[kode_ptn=2]	-108.925	12.367	-8.807	.000	-133.165	-84.684
	[kode_ptn=3]	-106.984	15.565	-6.873	.000	-137.492	-76.476
	[kode_ptn=4]	-107.512	17.298	-6.215	.000	-141.416	-73.607
	[kode_ptn=5]	-106.126	12.284	-8.639	.000	-130.204	-82.047
	[kode_ptn=6]	-102.099	12.222	-8.354	.000	-126.054	-78.144
	[kode_ptn=7]	-103.157	12.477	-8.268	.000	-127.612	-78.702
	[kode_ptn=8]	-90.249	12.309	-7.332	.000	-114.375	-66.122
	[kode_ptn=9]	-81.876	12.275	-6.670	.000	-105.935	-57.817
	[kode_ptn=10]	-56.144	12.285	-4.570	.000	-80.224	-32.064
	[kode_ptn=11]	0 ^a					
Y11	Intercept	606.387	12.273	49.408	.000	582.331	630.443
	[kode_ptn=1]	-97.864	12.391	-7.898	.000	-122.151	-73.577
	[kode_ptn=2]	-96.025	12.460	-7.706	.000	-120.448	-71.602
	[kode_ptn=3]	-103.438	15.682	-6.596	.000	-134.175	-72.701
	[kode_ptn=4]	-94.633	17.428	-5.430	.000	-128.792	-60.474
	[kode_ptn=5]	-97.565	12.377	-7.883	.000	-121.824	-73.306
	[kode_ptn=6]	-99.783	12.313	-8.104	.000	-123.918	-75.648
	[kode_ptn=7]	-99.232	12.571	-7.894	.000	-123.871	-74.593
	[kode_ptn=8]	-92.352	12.402	-7.447	.000	-116.660	-68.044
	[kode_ptn=9]	-78.344	12.367	-6.335	.000	-102.584	-54.104
	[kode_ptn=10]	-52.387	12.378	-4.232	.000	-76.648	-28.126
	[kode_ptn=11]	0 ^a					
Y12	Intercept	582.387	12.684	45.915	.000	557.526	607.248
	[kode_ptn=1]	-71.816	12.806	-5.608	.000	-96.916	-46.716
	[kode_ptn=2]	-73.122	12.877	-5.678	.000	-98.363	-47.882
	[kode_ptn=3]	-72.214	16.207	-4.456	.000	-103.980	-40.447
	[kode_ptn=4]	-79.240	18.011	-4.399	.000	-114.542	-43.937
	[kode_ptn=5]	-70.558	12.791	-5.516	.000	-95.629	-45.486
	[kode_ptn=6]	-70.720	12.726	-5.557	.000	-95.663	-45.778
	[kode_ptn=7]	-66.378	12.991	-5.109	.000	-91.841	-40.914
	[kode_ptn=8]	-61.708	12.817	-4.815	.000	-86.830	-36.586
	[kode_ptn=9]	-51.204	12.781	-4.006	.000	-76.255	-26.152
	[kode_ptn=10]	-37.803	12.792	-2.955	.003	-62.876	-12.730
	[kode_ptn=11]	0 ^a					
Y13	Intercept	581.306	12.285	47.317	.000	557.227	605.386
	[kode_ptn=1]	-71.181	12.403	-5.739	.000	-95.492	-46.869
	[kode_ptn=2]	-70.793	12.473	-5.676	.000	-95.240	-46.346
	[kode_ptn=3]	-68.735	15.698	-4.379	.000	-99.503	-37.967
	[kode_ptn=4]	-74.454	17.445	-4.268	.000	-108.647	-40.261
	[kode_ptn=5]	-73.483	12.389	-5.931	.000	-97.766	-49.199
	[kode_ptn=6]	-69.144	12.326	-5.610	.000	-93.303	-44.985
	[kode_ptn=7]	-63.159	12.583	-5.019	.000	-87.823	-38.496
	[kode_ptn=8]	-57.365	12.414	-4.621	.000	-81.697	-33.033
	[kode_ptn=9]	-49.799	12.379	-4.023	.000	-74.063	-25.535
	[kode_ptn=10]	-33.258	12.390	-2.684	.007	-57.543	-8.973
	[kode_ptn=11]	0 ^a					

a. This parameter is set to zero because it is redundant.

Lampiran 7 Output MANOVA One-Way

a. Saintek

Multivariate Tests^a

Effect		Value	F	Hypothesis df	Error df	Sig.
Intercept	Pillai's Trace	.985	321916.522 ^b	8.000	38550.000	.000
	Wilks' Lambda	.015	321916.522 ^b	8.000	38550.000	.000
	Hotelling's Trace	66.805	321916.522 ^b	8.000	38550.000	.000
	Roy's Largest Root	66.805	321916.522 ^b	8.000	38550.000	.000
X1	Pillai's Trace	.102	49.602	80.000	308456.000	.000
	Wilks' Lambda	.899	51.821	80.000	244509.235	.000
	Hotelling's Trace	.112	53.975	80.000	308386.000	.000
	Roy's Largest Root	.107	413.636 ^c	10.000	38557.000	.000

Tests of Between-Subjects Effects

Source	Dependent Variable	Type III Sum of Squares	df	Mean Square	F	Sig.
X1	Y1	9553409.457	10	955340.946	95.813	.000
	Y2	20038948.766	10	2003894.877	166.364	.000
	Y3	4934114.428	10	493411.443	66.185	.000
	Y4	14602341.996	10	1460234.200	146.816	.000
	Y5	14624187.114	10	1462418.711	166.342	.000
	Y6	16704843.824	10	1670484.382	178.631	.000
	Y7	14432480.706	10	1443248.071	127.698	.000
	Y8	9181930.238	10	918193.024	108.754	.000

b. Soshum

Multivariate Tests^a

Effect		Value	F	Hypothesis df	Error df	Sig.
Intercept	Pillai's Trace	.899	29974.214 ^b	9.000	30371.000	.000
	Wilks' Lambda	.101	29974.214 ^b	9.000	30371.000	.000
	Hotelling's Trace	8.882	29974.214 ^b	9.000	30371.000	.000
	Roy's Largest Root	8.882	29974.214 ^b	9.000	30371.000	.000
X1	Pillai's Trace	.109	37.188	90.000	273411.000	.000
	Wilks' Lambda	.892	38.788	90.000	205996.403	.000
	Hotelling's Trace	.119	40.313	90.000	273323.000	.000
	Roy's Largest Root	.108	328.757 ^c	10.000	30379.000	.000

Tests of Between-Subjects Effects

Source	Dependent Variable	Type III Sum of Squares	df	Mean Square	F	Sig.
X1	Y1	5688850.471	10	568885.047	70.133	.000
	Y2	8356871.016	10	835687.102	104.522	.000
	Y3	2578444.035	10	257844.404	36.423	.000
	Y4	8756275.007	10	875627.501	84.626	.000
	Y9	19572727.585	10	1957272.758	173.196	.000
	Y10	8711728.388	10	871172.839	94.690	.000
	Y11	7693503.933	10	769350.393	82.380	.000
	Y12	4373663.045	10	437366.305	43.847	.000
	Y13	5293326.112	10	529332.611	56.567	.000

Lampiran 8 Output Post Hoc Test MANOVA One-Way

a. Saintek

Multiple Comparisons

Games-Howell

Dependent Variable	(I)	(J)	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
						Lower Bound	Upper Bound
Y1	1	2	-.03	1.532	1.000	-4.96	4.91
		3	1.20	2.369	1.000	-6.43	8.83
		4	.42	1.769	1.000	-5.28	6.12
		5	-2.79	1.631	.832	-8.04	2.47
		6	-4.02	1.980	.630	-10.39	2.36
		7	-6.65	2.777	.371	-15.60	2.30
		8	-11.87	1.866	.000	-17.88	-5.86
		9	-16.39	2.141	.000	-23.29	-9.50
		10	-30.53	1.632	.000	-35.78	-25.27
		11	-57.01	2.982	.000	-66.62	-47.41
		2	1	3	.03	1.532	1.000
4	1.23			2.401	1.000	-6.51	8.97
5	.45			1.813	1.000	-5.39	6.28
6	-2.76			1.679	.863	-8.16	2.64
7	-3.99			2.019	.666	-10.49	2.51
8	-6.62			2.805	.393	-15.66	2.42
9	-11.84			1.908	.000	-17.98	-5.70
10	-16.37			2.177	.000	-23.38	-9.36
11	-30.50			1.679	.000	-35.91	-25.10
12	-56.99			3.008	.000	-66.68	-47.30
3	1	2	-1.20	2.369	1.000	-8.83	6.43
		4	-1.23	2.401	1.000	-8.97	6.51
		5	-.78	2.559	1.000	-9.03	7.46
		6	-3.99	2.466	.875	-11.93	3.96
		7	-5.22	2.709	.701	-13.94	3.51
		8	-7.85	3.336	.398	-18.60	2.90
		9	-13.07	2.627	.000	-21.53	-4.61
		10	-17.60	2.829	.000	-26.71	-8.48

	10	-31.73	2.466	.000	-39.67	-23.78
	11	-58.22	3.509	.000	-69.52	-46.91
4	1	-.42	1.769	1.000	-6.12	5.28
	2	-.45	1.813	1.000	-6.28	5.39
	3	.78	2.559	1.000	-7.46	9.03
	5	-3.21	1.897	.841	-9.31	2.90
	6	-4.44	2.204	.641	-11.53	2.66
	7	-7.07	2.941	.365	-16.54	2.41
	8	-12.29	2.103	.000	-19.06	-5.52
	9	-16.81	2.350	.000	-24.38	-9.25
	10	-30.95	1.898	.000	-37.06	-24.84
	11	-57.43	3.135	.000	-67.53	-47.34
5	1	2.79	1.631	.832	-2.47	8.04
	2	2.76	1.679	.863	-2.64	8.16
	3	3.99	2.466	.875	-3.96	11.93
	4	3.21	1.897	.841	-2.90	9.31
	6	-1.23	2.096	1.000	-7.98	5.52
	7	-3.86	2.860	.960	-13.08	5.35
	8	-9.08	1.988	.000	-15.48	-2.68
	9	-13.61	2.248	.000	-20.85	-6.37
	10	-27.74	1.770	.000	-33.44	-22.04
	11	-54.23	3.060	.000	-64.09	-44.37
6	1	4.02	1.980	.630	-2.36	10.39
	2	3.99	2.019	.666	-2.51	10.49
	3	5.22	2.709	.701	-3.51	13.94
	4	4.44	2.204	.641	-2.66	11.53
	5	1.23	2.096	1.000	-5.52	7.98
	7	-2.63	3.073	.999	-12.53	7.27
	8	-7.85	2.283	.025	-15.20	-.50
	9	-12.38	2.513	.000	-20.47	-4.29
	10	-26.51	2.096	.000	-33.26	-19.76
	11	-53.00	3.259	.000	-63.50	-42.50
7	1	6.65	2.777	.371	-2.30	15.60
	2	6.62	2.805	.393	-2.42	15.66
	3	7.85	3.336	.398	-2.90	18.60
	4	7.07	2.941	.365	-2.41	16.54
	5	3.86	2.860	.960	-5.35	13.08
	6	2.63	3.073	.999	-7.27	12.53
	8	-5.22	3.000	.815	-14.89	4.44
	9	-9.75	3.179	.079	-19.99	.49
	10	-23.88	2.861	.000	-33.10	-14.66
	11	-50.37	3.796	.000	-62.60	-38.14
8	1	11.87	1.866	.000	5.86	17.88
	2	11.84	1.908	.000	5.70	17.98
	3	13.07	2.627	.000	4.61	21.53
	4	12.29	2.103	.000	5.52	19.06
	5	9.08	1.988	.000	2.68	15.48
	6	7.85	2.283	.025	.50	15.20
	7	5.22	3.000	.815	-4.44	14.89
	9	-4.53	2.424	.739	-12.33	3.28

	10	-18.66	1.988	.000	-25.06	-12.26
	11	-45.15	3.191	.000	-55.43	-34.87
9	1	16.39	2.141	.000	9.50	23.29
	2	16.37	2.177	.000	9.36	23.38
	3	17.60	2.829	.000	8.48	26.71
	4	16.81	2.350	.000	9.25	24.38
	5	13.61	2.248	.000	6.37	20.85
	6	12.38	2.513	.000	4.29	20.47
	7	9.75	3.179	.079	-.49	19.99
	8	4.53	2.424	.739	-3.28	12.33
	10	-14.13	2.249	.000	-21.37	-6.89
	11	-40.62	3.360	.000	-51.44	-29.80
10	1	30.53	1.632	.000	25.27	35.78
	2	30.50	1.679	.000	25.10	35.91
	3	31.73	2.466	.000	23.78	39.67
	4	30.95	1.898	.000	24.84	37.06
	5	27.74	1.770	.000	22.04	33.44
	6	26.51	2.096	.000	19.76	33.26
	7	23.88	2.861	.000	14.66	33.10
	8	18.66	1.988	.000	12.26	25.06
	9	14.13	2.249	.000	6.89	21.37
	11	-26.49	3.060	.000	-36.34	-16.63
11	1	57.01	2.982	.000	47.41	66.62
	2	56.99	3.008	.000	47.30	66.68
	3	58.22	3.509	.000	46.91	69.52
	4	57.43	3.135	.000	47.34	67.53
	5	54.23	3.060	.000	44.37	64.09
	6	53.00	3.259	.000	42.50	63.50
	7	50.37	3.796	.000	38.14	62.60
	8	45.15	3.191	.000	34.87	55.43
	9	40.62	3.360	.000	29.80	51.44
	10	26.49	3.060	.000	16.63	36.34
Y2	1	2.43	1.634	.925	-2.84	7.69
	2	2.30	2.428	.997	-5.53	10.12
	3	2.14	1.861	.987	-3.85	8.14
	4	-1.94	1.733	.990	-7.51	3.64
	5	-6.53	2.104	.071	-13.30	.25
	6	-10.08	2.898	.022	-19.42	-.74
	7	-16.10	2.029	.000	-22.64	-9.57
	8	-22.05	2.311	.000	-29.49	-14.61
	9	-41.82	1.797	.000	-47.60	-36.03
	10	-83.22	3.569	.000	-94.72	-71.72
	11	-83.22	3.569	.000	-94.72	-71.72
2	1	-2.43	1.634	.925	-7.69	2.84
	2	-.13	2.456	1.000	-8.04	7.78
	3	-.28	1.897	1.000	-6.39	5.83
	4	-4.36	1.771	.327	-10.06	1.34
	5	-8.95	2.136	.001	-15.83	-2.08
	6	-12.50	2.921	.001	-21.92	-3.09
	7	-18.53	2.062	.000	-25.17	-11.89
	8	-24.48	2.340	.000	-32.01	-16.94
	9	-44.24	1.835	.000	-50.15	-38.33
	10	-85.65	3.588	.000	-97.21	-74.09
	11	-85.65	3.588	.000	-97.21	-74.09
3	1	-2.30	2.428	.997	-10.12	5.53

	2	.13	2.456	1.000	-7.78	8.04
	4	-.15	2.612	1.000	-8.57	8.26
	5	-4.23	2.522	.847	-12.36	3.90
	6	-8.82	2.790	.060	-17.81	.17
	7	-12.38	3.429	.014	-23.42	-1.33
	8	-18.40	2.735	.000	-27.21	-9.59
	9	-24.35	2.950	.000	-33.85	-14.85
	10	-44.11	2.567	.000	-52.38	-35.84
	11	-85.52	4.013	.000	-98.44	-72.59
4	1	-2.14	1.861	.987	-8.14	3.85
	2	.28	1.897	1.000	-5.83	6.39
	3	.15	2.612	1.000	-8.26	8.57
	5	-4.08	1.983	.608	-10.46	2.30
	6	-8.67	2.314	.008	-16.12	-1.22
	7	-12.22	3.054	.003	-22.06	-2.38
	8	-18.25	2.246	.000	-25.48	-11.02
	9	-24.20	2.504	.000	-32.26	-16.13
	10	-43.96	2.039	.000	-50.53	-37.39
	11	-85.37	3.697	.000	-97.28	-73.46
5	1	1.94	1.733	.990	-3.64	7.51
	2	4.36	1.771	.327	-1.34	10.06
	3	4.23	2.522	.847	-3.90	12.36
	4	4.08	1.983	.608	-2.30	10.46
	6	-4.59	2.212	.595	-11.71	2.53
	7	-8.14	2.978	.185	-17.74	1.45
	8	-14.17	2.141	.000	-21.06	-7.27
	9	-20.12	2.410	.000	-27.87	-12.36
	10	-39.88	1.923	.000	-46.07	-33.69
	11	-81.29	3.634	.000	-92.99	-69.58
6	1	6.53	2.104	.071	-.25	13.30
	2	8.95	2.136	.001	2.08	15.83
	3	8.82	2.790	.060	-.17	17.81
	4	8.67	2.314	.008	1.22	16.12
	5	4.59	2.212	.595	-2.53	11.71
	7	-3.55	3.208	.991	-13.89	6.78
	8	-9.58	2.451	.005	-17.47	-1.68
	9	-15.52	2.689	.000	-24.18	-6.86
	10	-35.29	2.263	.000	-42.57	-28.00
	11	-76.69	3.825	.000	-89.02	-64.37
7	1	10.08	2.898	.022	.74	19.42
	2	12.50	2.921	.001	3.09	21.92
	3	12.38	3.429	.014	1.33	23.42
	4	12.22	3.054	.003	2.38	22.06
	5	8.14	2.978	.185	-1.45	17.74
	6	3.55	3.208	.991	-6.78	13.89
	8	-6.03	3.159	.713	-16.20	4.15
	9	-11.97	3.347	.016	-22.75	-1.19
	10	-31.74	3.016	.000	-41.45	-22.02
	11	-73.14	4.313	.000	-87.03	-59.25
8	1	16.10	2.029	.000	9.57	22.64
	2	18.53	2.062	.000	11.89	25.17
	3	18.40	2.735	.000	9.59	27.21
	4	18.25	2.246	.000	11.02	25.48
	5	14.17	2.141	.000	7.27	21.06
	6	9.58	2.451	.005	1.68	17.47
	7	6.03	3.159	.713	-4.15	16.20
	9	-5.95	2.631	.462	-14.42	2.53

	10		-25.71	2.194	.000	-32.77	-18.65
	11		-67.12	3.785	.000	-79.31	-54.93
9	1		22.05	2.311	.000	14.61	29.49
	2		24.48	2.340	.000	16.94	32.01
	3		24.35	2.950	.000	14.85	33.85
	4		24.20	2.504	.000	16.13	32.26
	5		20.12	2.410	.000	12.36	27.87
	6		15.52	2.689	.000	6.86	24.18
	7		11.97	3.347	.016	1.19	22.75
	8		5.95	2.631	.462	-2.53	14.42
	10		-19.76	2.457	.000	-27.67	-11.85
	11		-61.17	3.943	.000	-73.87	-48.47
10	1		41.82	1.797	.000	36.03	47.60
	2		44.24	1.835	.000	38.33	50.15
	3		44.11	2.567	.000	35.84	52.38
	4		43.96	2.039	.000	37.39	50.53
	5		39.88	1.923	.000	33.69	46.07
	6		35.29	2.263	.000	28.00	42.57
	7		31.74	3.016	.000	22.02	41.45
	8		25.71	2.194	.000	18.65	32.77
	9		19.76	2.457	.000	11.85	27.67
	11		-41.41	3.666	.000	-53.21	-29.60
11	1		83.22	3.569	.000	71.72	94.72
	2		85.65	3.588	.000	74.09	97.21
	3		85.52	4.013	.000	72.59	98.44
	4		85.37	3.697	.000	73.46	97.28
	5		81.29	3.634	.000	69.58	92.99
	6		76.69	3.825	.000	64.37	89.02
	7		73.14	4.313	.000	59.25	87.03
	8		67.12	3.785	.000	54.93	79.31
	9		61.17	3.943	.000	48.47	73.87
	10		41.41	3.666	.000	29.60	53.21
Y3	1	2	.70	1.263	1.000	-3.37	4.76
		3	2.76	1.854	.924	-3.21	8.73
		4	1.66	1.432	.987	-2.95	6.27
		5	-1.08	1.327	.999	-5.35	3.19
		6	-1.66	1.618	.995	-6.87	3.55
		7	-5.75	2.300	.305	-13.16	1.66
		8	-9.49	1.561	.000	-14.52	-4.46
		9	-11.92	1.816	.000	-17.76	-6.07
		10	-23.43	1.421	.000	-28.01	-18.85
		11	-35.67	2.723	.000	-44.44	-26.89
	2	1	-.70	1.263	1.000	-4.76	3.37
		3	2.06	1.885	.991	-4.01	8.14
		4	.96	1.472	1.000	-3.78	5.70
		5	-1.78	1.370	.969	-6.19	2.63
		6	-2.36	1.654	.942	-7.69	2.96
		7	-6.45	2.325	.169	-13.94	1.05
		8	-10.19	1.598	.000	-15.33	-5.04
		9	-12.61	1.848	.000	-18.56	-6.66
		10	-24.13	1.462	.000	-28.83	-19.42
		11	-36.36	2.744	.000	-45.20	-27.52
	3	1	-2.76	1.854	.924	-8.73	3.21
		2	-2.06	1.885	.991	-8.14	4.01
		4	-1.10	2.002	1.000	-7.55	5.35
		5	-3.84	1.929	.655	-10.06	2.37
		6	-4.42	2.139	.600	-11.32	2.47

	7	-8.51	2.692	.060	-17.18	.16
	8	-12.25	2.097	.000	-19.00	-5.49
	9	-14.68	2.293	.000	-22.06	-7.29
	10	-26.19	1.995	.000	-32.62	-19.76
	11	-38.43	3.061	.000	-48.29	-28.57
4	1	-1.66	1.432	.987	-6.27	2.95
	2	-.96	1.472	1.000	-5.70	3.78
	3	1.10	2.002	1.000	-5.35	7.55
	5	-2.74	1.527	.784	-7.66	2.18
	6	-3.32	1.786	.743	-9.07	2.43
	7	-7.41	2.421	.080	-15.21	.39
	8	-11.15	1.735	.000	-16.73	-5.56
	9	-13.57	1.967	.000	-19.91	-7.24
	10	-25.09	1.610	.000	-30.27	-19.91
	11	-37.33	2.826	.000	-46.43	-28.22
5	1	1.08	1.327	.999	-3.19	5.35
	2	1.78	1.370	.969	-2.63	6.19
	3	3.84	1.929	.655	-2.37	10.06
	4	2.74	1.527	.784	-2.18	7.66
	6	-.58	1.703	1.000	-6.07	4.90
	7	-4.67	2.361	.665	-12.27	2.94
	8	-8.41	1.650	.000	-13.72	-3.10
	9	-10.83	1.893	.000	-16.93	-4.74
	10	-22.35	1.518	.000	-27.23	-17.46
	11	-34.58	2.774	.000	-43.52	-25.65
6	1	1.66	1.618	.995	-3.55	6.87
	2	2.36	1.654	.942	-2.96	7.69
	3	4.42	2.139	.600	-2.47	11.32
	4	3.32	1.786	.743	-2.43	9.07
	5	.58	1.703	1.000	-4.90	6.07
	7	-4.08	2.536	.878	-12.25	4.08
	8	-7.82	1.892	.002	-13.91	-1.73
	9	-10.25	2.107	.000	-17.03	-3.47
	10	-21.76	1.778	.000	-27.49	-16.04
	11	-34.00	2.925	.000	-43.42	-24.58
7	1	5.75	2.300	.305	-1.66	13.16
	2	6.45	2.325	.169	-1.05	13.94
	3	8.51	2.692	.060	-.16	17.18
	4	7.41	2.421	.080	-.39	15.21
	5	4.67	2.361	.665	-2.94	12.27
	6	4.08	2.536	.878	-4.08	12.25
	8	-3.74	2.500	.921	-11.79	4.31
	9	-6.17	2.667	.425	-14.76	2.42
	10	-17.68	2.415	.000	-25.46	-9.90
	11	-29.92	3.350	.000	-40.71	-19.13
8	1	9.49	1.561	.000	4.46	14.52
	2	10.19	1.598	.000	5.04	15.33
	3	12.25	2.097	.000	5.49	19.00
	4	11.15	1.735	.000	5.56	16.73
	5	8.41	1.650	.000	3.10	13.72
	6	7.82	1.892	.002	1.73	13.91
	7	3.74	2.500	.921	-4.31	11.79
	9	-2.43	2.064	.985	-9.07	4.22
	10	-13.94	1.726	.000	-19.50	-8.38
	11	-26.18	2.894	.000	-35.50	-16.86
9	1	11.92	1.816	.000	6.07	17.76
	2	12.61	1.848	.000	6.66	18.56

	3	14.68	2.293	.000	7.29	22.06
	4	13.57	1.967	.000	7.24	19.91
	5	10.83	1.893	.000	4.74	16.93
	6	10.25	2.107	.000	3.47	17.03
	7	6.17	2.667	.425	-2.42	14.76
	8	2.43	2.064	.985	-4.22	9.07
	10	-11.51	1.960	.000	-17.82	-5.20
	11	-23.75	3.039	.000	-33.54	-13.96
10	1	23.43	1.421	.000	18.85	28.01
	2	24.13	1.462	.000	19.42	28.83
	3	26.19	1.995	.000	19.76	32.62
	4	25.09	1.610	.000	19.91	30.27
	5	22.35	1.518	.000	17.46	27.23
	6	21.76	1.778	.000	16.04	27.49
	7	17.68	2.415	.000	9.90	25.46
	8	13.94	1.726	.000	8.38	19.50
	9	11.51	1.960	.000	5.20	17.82
	11	-12.24	2.821	.001	-21.32	-3.15
11	1	35.67	2.723	.000	26.89	44.44
	2	36.36	2.744	.000	27.52	45.20
	3	38.43	3.061	.000	28.57	48.29
	4	37.33	2.826	.000	28.22	46.43
	5	34.58	2.774	.000	25.65	43.52
	6	34.00	2.925	.000	24.58	43.42
	7	29.92	3.350	.000	19.13	40.71
	8	26.18	2.894	.000	16.86	35.50
	9	23.75	3.039	.000	13.96	33.54
	10	12.24	2.821	.001	3.15	21.32
Y4	1	2.05	1.491	.955	-2.75	6.85
	3	.25	2.347	1.000	-7.32	7.81
	4	-.31	1.758	1.000	-5.97	5.35
	5	-3.60	1.601	.470	-8.75	1.55
	6	-5.53	1.954	.148	-11.82	.77
	7	-4.56	2.685	.836	-13.22	4.09
	8	-13.13	1.842	.000	-19.06	-7.20
	9	-18.77	2.131	.000	-25.63	-11.91
	10	-36.86	1.607	.000	-42.03	-31.68
	11	-71.08	3.015	.000	-80.79	-61.37
	2	-2.05	1.491	.955	-6.85	2.75
	3	-1.80	2.387	1.000	-9.49	5.89
	4	-2.36	1.810	.968	-8.19	3.47
	5	-5.65	1.658	.028	-10.99	-.31
	6	-7.57	2.002	.007	-14.02	-1.13
	7	-6.61	2.720	.347	-15.37	2.15
	8	-15.18	1.893	.000	-21.27	-9.08
	9	-20.82	2.174	.000	-27.82	-13.82
	10	-38.91	1.664	.000	-44.26	-33.55
	11	-73.13	3.045	.000	-82.94	-63.32
3	1	-.25	2.347	1.000	-7.81	7.32
	2	1.80	2.387	1.000	-5.89	9.49
	4	-.56	2.562	1.000	-8.82	7.69
	5	-3.85	2.457	.896	-11.76	4.07
	6	-5.77	2.701	.550	-14.47	2.93
	7	-4.81	3.269	.929	-15.34	5.72
	8	-13.38	2.621	.000	-21.82	-4.94
	9	-19.02	2.831	.000	-28.14	-9.90
	10	-37.11	2.461	.000	-45.04	-29.18

	11	-71.33	3.544	.000	-82.75	-59.91
4	1	.31	1.758	1.000	-5.35	5.97
	2	2.36	1.810	.968	-3.47	8.19
	3	.56	2.562	1.000	-7.69	8.82
	5	-3.29	1.902	.821	-9.41	2.84
	6	-5.21	2.208	.392	-12.32	1.90
	7	-4.25	2.875	.927	-13.51	5.01
	8	-12.82	2.109	.000	-19.61	-6.03
	9	-18.46	2.365	.000	-26.07	-10.84
	10	-36.55	1.907	.000	-42.69	-30.41
	11	-70.77	3.185	.000	-81.03	-60.51
	5	1	3.60	1.601	.470	-1.55	8.75
2		5.65	1.658	.028	.31	10.99
3		3.85	2.457	.896	-4.07	11.76
4		3.29	1.902	.821	-2.84	9.41
6		-1.93	2.084	.998	-8.64	4.79
7		-.96	2.781	1.000	-9.92	8.00
8		-9.53	1.980	.000	-15.90	-3.16
9		-15.17	2.251	.000	-22.42	-7.92
10		-33.26	1.763	.000	-38.93	-27.58
11		-67.48	3.101	.000	-77.47	-57.49
6		1	5.53	1.954	.148	-.77	11.82
	2	7.57	2.002	.007	1.13	14.02
	3	5.77	2.701	.550	-2.93	14.47
	4	5.21	2.208	.392	-1.90	12.32
	5	1.93	2.084	.998	-4.79	8.64
	7	.96	2.999	1.000	-8.70	10.62
	8	-7.61	2.275	.034	-14.93	-.28
	9	-13.24	2.514	.000	-21.34	-5.15
	10	-31.33	2.089	.000	-38.06	-24.61
	11	-65.56	3.297	.000	-76.18	-54.94
	7	1	4.56	2.685	.836	-4.09	13.22
2		6.61	2.720	.347	-2.15	15.37
3		4.81	3.269	.929	-5.72	15.34
4		4.25	2.875	.927	-5.01	13.51
5		.96	2.781	1.000	-8.00	9.92
6		-.96	2.999	1.000	-10.62	8.70
8		-8.57	2.927	.115	-18.00	.86
9		-14.21	3.117	.000	-24.24	-4.17
10		-32.30	2.785	.000	-41.27	-23.32
11		-66.52	3.776	.000	-78.68	-54.36
8		1	13.13	1.842	.000	7.20	19.06
	2	15.18	1.893	.000	9.08	21.27
	3	13.38	2.621	.000	4.94	21.82
	4	12.82	2.109	.000	6.03	19.61
	5	9.53	1.980	.000	3.16	15.90
	6	7.61	2.275	.034	.28	14.93
	7	8.57	2.927	.115	-.86	18.00
	9	-5.64	2.429	.419	-13.46	2.18
	10	-23.73	1.985	.000	-30.12	-17.34
	11	-57.95	3.232	.000	-68.36	-47.54
	9	1	18.77	2.131	.000	11.91
2		20.82	2.174	.000	13.82	27.82
3		19.02	2.831	.000	9.90	28.14
4		18.46	2.365	.000	10.84	26.07
5		15.17	2.251	.000	7.92	22.42
6		13.24	2.514	.000	5.15	21.34

	7	14.21	3.117	.000	4.17	24.24
	8	5.64	2.429	.419	-2.18	13.46
	10	-18.09	2.255	.000	-25.35	-10.83
	11	-52.31	3.405	.000	-63.28	-41.35
10	1	36.86	1.607	.000	31.68	42.03
	2	38.91	1.664	.000	33.55	44.26
	3	37.11	2.461	.000	29.18	45.04
	4	36.55	1.907	.000	30.41	42.69
	5	33.26	1.763	.000	27.58	38.93
	6	31.33	2.089	.000	24.61	38.06
	7	32.30	2.785	.000	23.32	41.27
	8	23.73	1.985	.000	17.34	30.12
	9	18.09	2.255	.000	10.83	25.35
	11	-34.22	3.104	.000	-44.22	-24.23
11	1	71.08	3.015	.000	61.37	80.79
	2	73.13	3.045	.000	63.32	82.94
	3	71.33	3.544	.000	59.91	82.75
	4	70.77	3.185	.000	60.51	81.03
	5	67.48	3.101	.000	57.49	77.47
	6	65.56	3.297	.000	54.94	76.18
	7	66.52	3.776	.000	54.36	78.68
	8	57.95	3.232	.000	47.54	68.36
	9	52.31	3.405	.000	41.35	63.28
	10	34.22	3.104	.000	24.23	44.22
Y5	1	2.09	1.266	.862	-1.99	6.16
	3	1.82	1.869	.997	-4.21	7.84
	4	.94	1.425	1.000	-3.65	5.53
	5	-1.05	1.337	.999	-5.35	3.26
	6	-.64	1.666	1.000	-6.01	4.72
	7	-3.93	2.317	.838	-11.39	3.54
	8	-6.38	1.618	.004	-11.59	-1.17
	9	-11.96	1.871	.000	-17.99	-5.94
	10	-24.51	1.527	.000	-29.43	-19.60
	11	-80.61	3.563	.000	-92.09	-69.13
2	1	-2.09	1.266	.862	-6.16	1.99
	3	-.27	1.877	1.000	-6.32	5.78
	4	-1.15	1.436	.999	-5.77	3.48
	5	-3.13	1.349	.417	-7.48	1.21
	6	-2.73	1.676	.871	-8.12	2.67
	7	-6.01	2.323	.255	-13.50	1.47
	8	-8.47	1.627	.000	-13.71	-3.23
	9	-14.05	1.879	.000	-20.10	-8.00
	10	-26.60	1.537	.000	-31.54	-21.65
	11	-82.70	3.567	.000	-94.19	-71.20
3	1	-1.82	1.869	.997	-7.84	4.21
	2	.27	1.877	1.000	-5.78	6.32
	4	-.88	1.988	1.000	-7.28	5.53
	5	-2.87	1.926	.924	-9.07	3.34
	6	-2.46	2.167	.989	-9.44	4.52
	7	-5.74	2.700	.557	-14.44	2.95
	8	-8.20	2.130	.006	-15.06	-1.34
	9	-13.78	2.328	.000	-21.28	-6.28
	10	-26.33	2.062	.000	-32.97	-19.68
	11	-82.43	3.823	.000	-94.74	-70.11
4	1	-.94	1.425	1.000	-5.53	3.65
	2	1.15	1.436	.999	-3.48	5.77
	3	.88	1.988	1.000	-5.53	7.28

	5	-1.99	1.499	.965	-6.81	2.84
	6	-1.58	1.799	.999	-7.37	4.21
	7	-4.87	2.414	.638	-12.64	2.91
	8	-7.32	1.754	.002	-12.97	-1.67
	9	-12.90	1.990	.000	-19.31	-6.49
	10	-25.45	1.670	.000	-30.83	-20.07
	11	-81.55	3.627	.000	-93.23	-69.86
5	1	1.05	1.337	.999	-3.26	5.35
	2	3.13	1.349	.417	-1.21	7.48
	3	2.87	1.926	.924	-3.34	9.07
	4	1.99	1.499	.965	-2.84	6.81
	6	.41	1.730	1.000	-5.16	5.98
	7	-2.88	2.363	.981	-10.49	4.73
	8	-5.33	1.683	.058	-10.75	.09
	9	-10.91	1.928	.000	-17.12	-4.71
	10	-23.46	1.596	.000	-28.60	-18.32
	11	-79.56	3.593	.000	-91.14	-67.99
6	1	.64	1.666	1.000	-4.72	6.01
	2	2.73	1.676	.871	-2.67	8.12
	3	2.46	2.167	.989	-4.52	9.44
	4	1.58	1.799	.999	-4.21	7.37
	5	-.41	1.730	1.000	-5.98	5.16
	7	-3.29	2.564	.972	-11.54	4.97
	8	-5.74	1.955	.112	-12.03	.55
	9	-11.32	2.169	.000	-18.31	-4.34
	10	-23.87	1.880	.000	-29.92	-17.81
	11	-79.97	3.728	.000	-91.98	-67.96
7	1	3.93	2.317	.838	-3.54	11.39
	2	6.01	2.323	.255	-1.47	13.50
	3	5.74	2.700	.557	-2.95	14.44
	4	4.87	2.414	.638	-2.91	12.64
	5	2.88	2.363	.981	-4.73	10.49
	6	3.29	2.564	.972	-4.97	11.54
	8	-2.45	2.532	.997	-10.61	5.70
	9	-8.03	2.701	.101	-16.73	.67
	10	-20.58	2.475	.000	-28.56	-12.61
	11	-76.68	4.061	.000	-89.76	-63.60
8	1	6.38	1.618	.004	1.17	11.59
	2	8.47	1.627	.000	3.23	13.71
	3	8.20	2.130	.006	1.34	15.06
	4	7.32	1.754	.002	1.67	12.97
	5	5.33	1.683	.058	-.09	10.75
	6	5.74	1.955	.112	-.55	12.03
	7	2.45	2.532	.997	-5.70	10.61
	9	-5.58	2.132	.240	-12.45	1.28
	10	-18.13	1.837	.000	-24.04	-12.21
	11	-74.23	3.706	.000	-86.17	-62.29
9	1	11.96	1.871	.000	5.94	17.99
	2	14.05	1.879	.000	8.00	20.10
	3	13.78	2.328	.000	6.28	21.28
	4	12.90	1.990	.000	6.49	19.31
	5	10.91	1.928	.000	4.71	17.12
	6	11.32	2.169	.000	4.34	18.31
	7	8.03	2.701	.101	-.67	16.73
	8	5.58	2.132	.240	-1.28	12.45
	10	-12.55	2.064	.000	-19.19	-5.90
	11	-68.65	3.824	.000	-80.96	-56.33

	10	1	24.51	1.527	.000	19.60	29.43
		2	26.60	1.537	.000	21.65	31.54
		3	26.33	2.062	.000	19.68	32.97
		4	25.45	1.670	.000	20.07	30.83
		5	23.46	1.596	.000	18.32	28.60
		6	23.87	1.880	.000	17.81	29.92
		7	20.58	2.475	.000	12.61	28.56
		8	18.13	1.837	.000	12.21	24.04
		9	12.55	2.064	.000	5.90	19.19
		11	-56.10	3.668	.000	-67.91	-44.28
	11	1	80.61	3.563	.000	69.13	92.09
		2	82.70	3.567	.000	71.20	94.19
		3	82.43	3.823	.000	70.11	94.74
		4	81.55	3.627	.000	69.86	93.23
		5	79.56	3.593	.000	67.99	91.14
		6	79.97	3.728	.000	67.96	91.98
		7	76.68	4.061	.000	63.60	89.76
		8	74.23	3.706	.000	62.29	86.17
		9	68.65	3.824	.000	56.33	80.96
		10	56.10	3.668	.000	44.28	67.91
Y6	1	2	2.46	1.283	.705	-1.67	6.60
		3	-1.72	1.945	.998	-7.99	4.54
		4	.03	1.456	1.000	-4.66	4.72
		5	-4.29	1.374	.066	-8.72	.13
		6	-7.16	1.733	.002	-12.74	-1.58
		7	-8.69	2.494	.022	-16.73	-.65
		8	-12.74	1.670	.000	-18.12	-7.37
		9	-22.35	1.956	.000	-28.64	-16.05
		10	-35.97	1.550	.000	-40.95	-30.98
		11	-81.41	3.499	.000	-92.69	-70.14
	2	1	-2.46	1.283	.705	-6.60	1.67
		3	-4.19	1.970	.559	-10.54	2.16
		4	-2.43	1.489	.868	-7.23	2.36
		5	-6.76	1.409	.000	-11.29	-2.22
		6	-9.62	1.761	.000	-15.29	-3.96
		7	-11.16	2.514	.000	-19.26	-3.06
		8	-15.21	1.699	.000	-20.68	-9.74
		9	-24.81	1.981	.000	-31.19	-18.43
		10	-38.43	1.581	.000	-43.52	-33.34
		11	-83.88	3.513	.000	-95.19	-72.56
	3	1	1.72	1.945	.998	-4.54	7.99
		2	4.19	1.970	.559	-2.16	10.54
		4	1.76	2.086	.999	-4.97	8.48
		5	-2.57	2.030	.974	-9.11	3.97
		6	-5.44	2.288	.382	-12.81	1.93
		7	-6.97	2.908	.369	-16.34	2.40
		8	-11.02	2.241	.000	-18.24	-3.80
		9	-20.62	2.462	.000	-28.55	-12.69
		10	-34.24	2.153	.000	-41.18	-27.31
		11	-79.69	3.805	.000	-91.94	-67.43
	4	1	-.03	1.456	1.000	-4.72	4.66
		2	2.43	1.489	.868	-2.36	7.23
		3	-1.76	2.086	.999	-8.48	4.97
		5	-4.32	1.568	.175	-9.37	.72
		6	-7.19	1.890	.007	-13.28	-1.11
		7	-8.72	2.606	.034	-17.12	-.33
		8	-12.77	1.833	.000	-18.68	-6.87

	9	-22.38	2.097	.000	-29.13	-15.63
	10	-36.00	1.724	.000	-41.55	-30.45
	11	-81.44	3.580	.000	-92.98	-69.91
5	1	4.29	1.374	.066	-.13	8.72
	2	6.76	1.409	.000	2.22	11.29
	3	2.57	2.030	.974	-3.97	9.11
	4	4.32	1.568	.175	-.72	9.37
	6	-2.87	1.828	.895	-8.75	3.02
	7	-4.40	2.561	.827	-12.65	3.85
	8	-8.45	1.769	.000	-14.14	-2.76
	9	-18.05	2.041	.000	-24.62	-11.48
	10	-31.67	1.655	.000	-37.00	-26.34
	11	-77.12	3.547	.000	-88.55	-65.69
6	1	7.16	1.733	.002	1.58	12.74
	2	9.62	1.761	.000	3.96	15.29
	3	5.44	2.288	.382	-1.93	12.81
	4	7.19	1.890	.007	1.11	13.28
	5	2.87	1.828	.895	-3.02	8.75
	7	-1.53	2.770	1.000	-10.46	7.39
	8	-5.58	2.060	.195	-12.21	1.05
	9	-15.18	2.298	.000	-22.58	-7.79
	10	-28.80	1.963	.000	-35.12	-22.48
	11	-74.25	3.701	.000	-86.17	-62.33
7	1	8.69	2.494	.022	.65	16.73
	2	11.16	2.514	.000	3.06	19.26
	3	6.97	2.908	.369	-2.40	16.34
	4	8.72	2.606	.034	.33	17.12
	5	4.40	2.561	.827	-3.85	12.65
	6	1.53	2.770	1.000	-7.39	10.46
	8	-4.05	2.732	.926	-12.85	4.75
	9	-13.65	2.915	.000	-23.04	-4.26
	10	-27.27	2.660	.000	-35.84	-18.70
	11	-72.72	4.113	.000	-85.97	-59.47
8	1	12.74	1.670	.000	7.37	18.12
	2	15.21	1.699	.000	9.74	20.68
	3	11.02	2.241	.000	3.80	18.24
	4	12.77	1.833	.000	6.87	18.68
	5	8.45	1.769	.000	2.76	14.14
	6	5.58	2.060	.195	-1.05	12.21
	7	4.05	2.732	.926	-4.75	12.85
	9	-9.60	2.251	.001	-16.85	-2.36
	10	-23.22	1.908	.000	-29.37	-17.08
	11	-68.67	3.672	.000	-80.50	-56.84
9	1	22.35	1.956	.000	16.05	28.64
	2	24.81	1.981	.000	18.43	31.19
	3	20.62	2.462	.000	12.69	28.55
	4	22.38	2.097	.000	15.63	29.13
	5	18.05	2.041	.000	11.48	24.62
	6	15.18	2.298	.000	7.79	22.58
	7	13.65	2.915	.000	4.26	23.04
	8	9.60	2.251	.001	2.36	16.85
	10	-13.62	2.163	.000	-20.58	-6.66
	11	-59.07	3.811	.000	-71.34	-46.79
10	1	35.97	1.550	.000	30.98	40.95
	2	38.43	1.581	.000	33.34	43.52
	3	34.24	2.153	.000	27.31	41.18
	4	36.00	1.724	.000	30.45	41.55

	5	31.67	1.655	.000	26.34	37.00
	6	28.80	1.963	.000	22.48	35.12
	7	27.27	2.660	.000	18.70	35.84
	8	23.22	1.908	.000	17.08	29.37
	9	13.62	2.163	.000	6.66	20.58
	11	-45.45	3.619	.000	-57.11	-33.79
	11 1	81.41	3.499	.000	70.14	92.69
	2	83.88	3.513	.000	72.56	95.19
	3	79.69	3.805	.000	67.43	91.94
	4	81.44	3.580	.000	69.91	92.98
	5	77.12	3.547	.000	65.69	88.55
	6	74.25	3.701	.000	62.33	86.17
	7	72.72	4.113	.000	59.47	85.97
	8	68.67	3.672	.000	56.84	80.50
	9	59.07	3.811	.000	46.79	71.34
	10	45.45	3.619	.000	33.79	57.11
Y7	1 2	-1.33	1.452	.998	-6.01	3.34
	3	-3.23	2.182	.927	-10.26	3.81
	4	-1.56	1.676	.998	-6.96	3.83
	5	-6.84	1.576	.001	-11.92	-1.77
	6	-5.52	1.935	.139	-11.75	.71
	7	-10.16	2.788	.012	-19.15	-1.17
	8	-14.02	1.867	.000	-20.03	-8.01
	9	-18.22	2.141	.000	-25.12	-11.33
	10	-33.33	1.711	.000	-38.84	-27.82
	11	-79.80	3.806	.000	-92.06	-67.54
	2 1	1.33	1.452	.998	-3.34	6.01
	3	-1.89	2.202	.999	-8.99	5.20
	4	-.23	1.702	1.000	-5.71	5.25
	5	-5.51	1.604	.025	-10.67	-.35
	6	-4.19	1.958	.549	-10.49	2.12
	7	-8.83	2.804	.062	-17.86	.21
	8	-12.69	1.891	.000	-18.78	-6.60
	9	-16.89	2.162	.000	-23.85	-9.93
	10	-32.00	1.737	.000	-37.59	-26.41
	11	-78.47	3.817	.000	-90.77	-66.17
	3 1	3.23	2.182	.927	-3.81	10.26
	2	1.89	2.202	.999	-5.20	8.99
	4	1.66	2.356	1.000	-5.93	9.25
	5	-3.62	2.286	.890	-10.98	3.75
	6	-2.29	2.547	.998	-10.50	5.91
	7	-6.93	3.243	.550	-17.38	3.51
	8	-10.79	2.496	.001	-18.83	-2.75
	9	-15.00	2.707	.000	-23.72	-6.28
	10	-30.11	2.381	.000	-37.78	-22.44
	11	-76.58	4.151	.000	-89.95	-63.21
	4 1	1.56	1.676	.998	-3.83	6.96
	2	.23	1.702	1.000	-5.25	5.71
	3	-1.66	2.356	1.000	-9.25	5.93
	5	-5.28	1.809	.117	-11.11	.54
	6	-3.96	2.130	.745	-10.81	2.90
	7	-8.60	2.927	.112	-18.03	.83
	8	-12.46	2.068	.000	-19.11	-5.80
	9	-16.66	2.319	.000	-24.13	-9.20
	10	-31.77	1.928	.000	-37.98	-25.56
	11	-78.24	3.908	.000	-90.83	-65.65
	5 1	6.84	1.576	.001	1.77	11.92

	2	5.51	1.604	.025	.35	10.67
	3	3.62	2.286	.890	-3.75	10.98
	4	5.28	1.809	.117	-.54	11.11
	6	1.32	2.052	1.000	-5.28	7.93
	7	-3.32	2.870	.987	-12.57	5.93
	8	-7.18	1.988	.014	-13.57	-.78
	9	-11.38	2.247	.000	-18.62	-4.15
	10	-26.49	1.842	.000	-32.42	-20.56
	11	-72.96	3.866	.000	-85.42	-60.51
6	1	5.52	1.935	.139	-.71	11.75
	2	4.19	1.958	.549	-2.12	10.49
	3	2.29	2.547	.998	-5.91	10.50
	4	3.96	2.130	.745	-2.90	10.81
	5	-1.32	2.052	1.000	-7.93	5.28
	7	-4.64	3.083	.918	-14.57	5.29
	8	-8.50	2.283	.009	-15.85	-1.15
	9	-12.71	2.512	.000	-20.80	-4.62
	10	-27.82	2.157	.000	-34.76	-20.87
	11	-74.29	4.026	.000	-87.25	-61.32
7	1	10.16	2.788	.012	1.17	19.15
	2	8.83	2.804	.062	-.21	17.86
	3	6.93	3.243	.550	-3.51	17.38
	4	8.60	2.927	.112	-.83	18.03
	5	3.32	2.870	.987	-5.93	12.57
	6	4.64	3.083	.918	-5.29	14.57
	8	-3.86	3.040	.974	-13.65	5.93
	9	-8.06	3.216	.300	-18.42	2.29
	10	-23.17	2.947	.000	-32.67	-13.68
	11	-69.64	4.499	.000	-84.13	-55.15
8	1	14.02	1.867	.000	8.01	20.03
	2	12.69	1.891	.000	6.60	18.78
	3	10.79	2.496	.001	2.75	18.83
	4	12.46	2.068	.000	5.80	19.11
	5	7.18	1.988	.014	.78	13.57
	6	8.50	2.283	.009	1.15	15.85
	7	3.86	3.040	.974	-5.93	13.65
	9	-4.20	2.460	.831	-12.13	3.72
	10	-19.31	2.097	.000	-26.06	-12.57
	11	-65.78	3.994	.000	-78.65	-52.92
9	1	18.22	2.141	.000	11.33	25.12
	2	16.89	2.162	.000	9.93	23.85
	3	15.00	2.707	.000	6.28	23.72
	4	16.66	2.319	.000	9.20	24.13
	5	11.38	2.247	.000	4.15	18.62
	6	12.71	2.512	.000	4.62	20.80
	7	8.06	3.216	.300	-2.29	18.42
	8	4.20	2.460	.831	-3.72	12.13
	10	-15.11	2.344	.000	-22.66	-7.56
	11	-61.58	4.129	.000	-74.88	-48.28
10	1	33.33	1.711	.000	27.82	38.84
	2	32.00	1.737	.000	26.41	37.59
	3	30.11	2.381	.000	22.44	37.78
	4	31.77	1.928	.000	25.56	37.98
	5	26.49	1.842	.000	20.56	32.42
	6	27.82	2.157	.000	20.87	34.76
	7	23.17	2.947	.000	13.68	32.67
	8	19.31	2.097	.000	12.57	26.06

	9		15.11	2,344	.000	7.56	22.66
	11		-46.47	3,923	.000	-59.11	-33.83
11	1		79.80	3,806	.000	67.54	92.06
	2		78.47	3,817	.000	66.17	90.77
	3		76.58	4,151	.000	63.21	89.95
	4		78.24	3,908	.000	65.65	90.83
	5		72.96	3,866	.000	60.51	85.42
	6		74.29	4,026	.000	61.32	87.25
	7		69.64	4,499	.000	55.15	84.13
	8		65.78	3,994	.000	52.92	78.65
	9		61.58	4,129	.000	48.28	74.88
	10		46.47	3,923	.000	33.83	59.11
Y8	1	2	.87	1,283	1,000	-3.27	5.00
		3	-.21	1,909	1,000	-6.36	5.94
		4	-2.12	1,490	.943	-6.92	2.68
		5	-6.05	1,374	.001	-10.48	-1.63
		6	-6.26	1,701	.011	-11.73	-.78
		7	-14.58	2,389	.000	-22.28	-6.88
		8	-14.82	1,633	.000	-20.08	-9.56
		9	-13.31	1,869	.000	-19.33	-7.30
		10	-29.07	1,498	.000	-33.89	-24.24
		11	-61.20	3,208	.000	-71.53	-50.86
	2	1	-.87	1,283	1,000	-5.00	3.27
		3	-1.08	1,921	1,000	-7.27	5.11
		4	-2.99	1,506	.660	-7.84	1.86
		5	-6.92	1,391	.000	-11.40	-2.44
		6	-7.13	1,715	.002	-12.65	-1.60
		7	-15.45	2,399	.000	-23.18	-7.72
		8	-15.68	1,648	.000	-20.99	-10.38
		9	-14.18	1,881	.000	-20.24	-8.12
		10	-29.93	1,514	.000	-34.81	-25.06
		11	-62.06	3,215	.000	-72.42	-51.70
	3	1	.21	1,909	1,000	-5.94	6.36
		2	1.08	1,921	1,000	-5.11	7.27
		4	-1.91	2,065	.998	-8.56	4.74
		5	-5.84	1,983	.109	-12.23	.55
		6	-6.05	2,222	.190	-13.20	1.11
		7	-14.37	2,784	.000	-23.34	-5.40
		8	-14.61	2,171	.000	-21.60	-7.61
		9	-13.10	2,353	.000	-20.68	-5.52
		10	-28.86	2,071	.000	-35.53	-22.18
		11	-60.99	3,512	.000	-72.30	-49.67
	4	1	2.12	1,490	.943	-2.68	6.92
		2	2.99	1,506	.660	-1.86	7.84
		3	1.91	2,065	.998	-4.74	8.56
		5	-3.93	1,584	.315	-9.03	1.17
		6	-4.14	1,874	.500	-10.17	1.90
		7	-12.46	2,516	.000	-20.56	-4.36
		8	-12.69	1,813	.000	-18.53	-6.86
		9	-11.19	2,028	.000	-17.72	-4.66
		10	-26.95	1,693	.000	-32.39	-21.50
		11	-59.07	3,303	.000	-69.71	-48.43

5	1	6.05	1.374	.001	1.63	10.48
	2	6.92	1.391	.000	2.44	11.40
	3	5.84	1.983	.109	-.55	12.23
	4	3.93	1.584	.315	-1.17	9.03
	6	-.21	1.783	1.000	-5.95	5.54
	7	-8.53	2.449	.022	-16.42	-.64
	8	-8.76	1.719	.000	-14.30	-3.23
	9	-7.26	1.944	.009	-13.52	-1.00
	10	-23.01	1.592	.000	-28.14	-17.89
	11	-55.14	3.253	.000	-65.62	-44.67
6	1	6.26	1.701	.011	.78	11.73
	2	7.13	1.715	.002	1.60	12.65
	3	6.05	2.222	.190	-1.11	13.20
	4	4.14	1.874	.500	-1.90	10.17
	5	.21	1.783	1.000	-5.54	5.95
	7	-8.32	2.646	.063	-16.85	.20
	8	-8.56	1.990	.001	-14.97	-2.15
	9	-7.05	2.187	.049	-14.10	-.01
	10	-22.81	1.881	.000	-28.86	-16.75
	11	-54.94	3.403	.000	-65.90	-43.98
7	1	14.58	2.389	.000	6.88	22.28
	2	15.45	2.399	.000	7.72	23.18
	3	14.37	2.784	.000	5.40	23.34
	4	12.46	2.516	.000	4.36	20.56
	5	8.53	2.449	.022	.64	16.42
	6	8.32	2.646	.063	-.20	16.85
	8	-.23	2.603	1.000	-8.62	8.15
	9	1.27	2.757	1.000	-7.61	10.15
	10	-14.49	2.521	.000	-22.61	-6.36
	11	-46.61	3.795	.000	-58.84	-34.39
8	1	14.82	1.633	.000	9.56	20.08
	2	15.68	1.648	.000	10.38	20.99
	3	14.61	2.171	.000	7.61	21.60
	4	12.69	1.813	.000	6.86	18.53
	5	8.76	1.719	.000	3.23	14.30
	6	8.56	1.990	.001	2.15	14.97
	7	.23	2.603	1.000	-8.15	8.62
	9	1.50	2.135	1.000	-5.37	8.38
	10	-14.25	1.820	.000	-20.11	-8.39
	11	-46.38	3.370	.000	-57.24	-35.52
9	1	13.31	1.869	.000	7.30	19.33
	2	14.18	1.881	.000	8.12	20.24
	3	13.10	2.353	.000	5.52	20.68
	4	11.19	2.028	.000	4.66	17.72
	5	7.26	1.944	.009	1.00	13.52
	6	7.05	2.187	.049	.01	14.10
	7	-1.27	2.757	1.000	-10.15	7.61
	8	-1.50	2.135	1.000	-8.38	5.37
	10	-15.75	2.034	.000	-22.30	-9.21
	11	-47.88	3.490	.000	-59.13	-36.64

10	1	29.07	1.498	.000	24.24	33.89
	2	29.93	1.514	.000	25.06	34.81
	3	28.86	2.071	.000	22.18	35.53
	4	26.95	1.693	.000	21.50	32.39
	5	23.01	1.592	.000	17.89	28.14
	6	22.81	1.881	.000	16.75	28.86
	7	14.49	2.521	.000	6.36	22.61
	8	14.25	1.820	.000	8.39	20.11
	9	15.75	2.034	.000	9.21	22.30
	11	-32.13	3.307	.000	-42.78	-21.48
11	1	61.20	3.208	.000	50.86	71.53
	2	62.06	3.215	.000	51.70	72.42
	3	60.99	3.512	.000	49.67	72.30
	4	59.07	3.303	.000	48.43	69.71
	5	55.14	3.253	.000	44.67	65.62
	6	54.94	3.403	.000	43.98	65.90
	7	46.61	3.795	.000	34.39	58.84
	8	46.38	3.370	.000	35.52	57.24
	9	47.88	3.490	.000	36.64	59.13
	10	32.13	3.307	.000	21.48	42.78

b. Soshum

Multiple Comparisons

Games-Howell

Dependent Variable	(I) X1	(J) X1	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
						Lower Bound	Upper Bound
Y1	1	2	-.16	1.663	1.000	-5.52	5.20
		3	-1.09	6.592	1.000	-22.80	20.63
		4	7.79	8.011	.996	-18.98	34.57
		5	-.65	1.476	1.000	-5.40	4.10
		6	-2.29	1.246	.757	-6.30	1.72
		7	-9.00	2.804	.052	-18.04	.03
		8	-12.24	2.059	.000	-18.87	-5.60
		9	-23.59	1.908	.000	-29.73	-17.44
		10	-39.84	2.179	.000	-46.86	-32.82
		11	-77.96	14.434	.000	-126.21	-29.71
			2	1	.16	1.663	1.000	-5.20	5.52
3	-.93			6.685	1.000	-22.92	21.07
4	7.95			8.087	.996	-19.04	34.95
5	-.49			1.847	1.000	-6.44	5.46
6	-2.13			1.669	.973	-7.51	3.24
7	-8.85			3.016	.113	-18.56	.87
8	-12.08			2.340	.000	-19.61	-4.54
9	-23.43			2.207	.000	-30.53	-16.32
10	-39.68			2.446	.000	-47.56	-31.80
11	-77.80			14.476	.000	-126.17	-29.43
	3			1	1.09	6.592	1.000
		2	.93	6.685	1.000	-21.07	22.92
		4	8.88	10.300	.999	-24.87	42.62
		5	.44	6.640	1.000	-21.42	22.30
		11					

	6	-1.21	6.593	1.000	-22.92	20.51
	7	-7.92	7.055	.989	-31.03	15.19
	8	-11.15	6.794	.861	-33.47	11.17
	9	-22.50	6.750	.044	-44.69	-.31
	10	-38.75	6.831	.000	-61.19	-16.32
	11	-76.87	15.819	.000	-129.18	-24.57
4	1	-7.79	8.011	.996	-34.57	18.98
	2	-7.95	8.087	.996	-34.95	19.04
	3	-8.88	10.300	.999	-42.62	24.87
	5	-8.44	8.051	.993	-35.33	18.45
	6	-10.08	8.012	.972	-36.87	16.70
	7	-16.80	8.396	.649	-44.68	11.09
	8	-20.03	8.178	.353	-47.28	7.23
	9	-31.38	8.141	.011	-58.53	-4.23
	10	-47.63	8.209	.000	-74.98	-20.29
	11	-85.75	16.461	.000	-140.05	-31.45
5	1	.65	1.476	1.000	-4.10	5.40
	2	.49	1.847	1.000	-5.46	6.44
	3	-.44	6.640	1.000	-22.30	21.42
	4	8.44	8.051	.993	-18.45	35.33
	6	-1.64	1.482	.990	-6.41	3.13
	7	-8.36	2.916	.135	-17.76	1.04
	8	-11.59	2.210	.000	-18.70	-4.47
	9	-22.94	2.069	.000	-29.60	-16.28
	10	-39.19	2.322	.000	-46.67	-31.71
	11	-77.31	14.456	.000	-125.62	-29.00
6	1	2.29	1.246	.757	-1.72	6.30
	2	2.13	1.669	.973	-3.24	7.51
	3	1.21	6.593	1.000	-20.51	22.92
	4	10.08	8.012	.972	-16.70	36.87
	5	1.64	1.482	.990	-3.13	6.41
	7	-6.71	2.807	.373	-15.76	2.34
	8	-9.94	2.064	.000	-16.59	-3.30
	9	-21.30	1.913	.000	-27.45	-15.14
	10	-37.55	2.184	.000	-44.58	-30.52
	11	-75.67	14.434	.000	-123.92	-27.42
7	1	9.00	2.804	.052	-.03	18.04
	2	8.85	3.016	.113	-.87	18.56
	3	7.92	7.055	.989	-15.19	31.03
	4	16.80	8.396	.649	-11.09	44.68
	5	8.36	2.916	.135	-1.04	17.76
	6	6.71	2.807	.373	-2.34	15.76
	8	-3.23	3.251	.996	-13.70	7.24
	9	-14.58	3.157	.000	-24.75	-4.41
	10	-30.83	3.328	.000	-41.56	-20.11
	11	-68.95	14.651	.001	-117.82	-20.09
8	1	12.24	2.059	.000	5.60	18.87
	2	12.08	2.340	.000	4.54	19.61
	3	11.15	6.794	.861	-11.17	33.47
	4	20.03	8.178	.353	-7.23	47.28

	5	11.59	2.210	.000	4.47	18.70	
	6	9.94	2.064	.000	3.30	16.59	
	7	3.23	3.251	.996	-7.24	13.70	
	9	-11.35	2.519	.000	-19.46	-3.24	
	10	-27.60	2.731	.000	-36.40	-18.81	
	11	-65.72	14.527	.001	-114.24	-17.21	
9	1	23.59	1.908	.000	17.44	29.73	
	2	23.43	2.207	.000	16.32	30.53	
	3	22.50	6.750	.044	.31	44.69	
	4	31.38	8.141	.011	4.23	58.53	
	5	22.94	2.069	.000	16.28	29.60	
	6	21.30	1.913	.000	15.14	27.45	
	7	14.58	3.157	.000	4.41	24.75	
	8	11.35	2.519	.000	3.24	19.46	
	10	-16.25	2.618	.000	-24.68	-7.82	
	11	-54.37	14.507	.016	-102.83	-5.92	
10	1	39.84	2.179	.000	32.82	46.86	
	2	39.68	2.446	.000	31.80	47.56	
	3	38.75	6.831	.000	16.32	61.19	
	4	47.63	8.209	.000	20.29	74.98	
	5	39.19	2.322	.000	31.71	46.67	
	6	37.55	2.184	.000	30.52	44.58	
	7	30.83	3.328	.000	20.11	41.56	
	8	27.60	2.731	.000	18.81	36.40	
	9	16.25	2.618	.000	7.82	24.68	
	11	-38.12	14.545	.260	-86.68	10.44	
11	1	77.96	14.434	.000	29.71	126.21	
	2	77.80	14.476	.000	29.43	126.17	
	3	76.87	15.819	.000	24.57	129.18	
	4	85.75	16.461	.000	31.45	140.05	
	5	77.31	14.456	.000	29.00	125.62	
	6	75.67	14.434	.000	27.42	123.92	
	7	68.95	14.651	.001	20.09	117.82	
	8	65.72	14.527	.001	17.21	114.24	
	9	54.37	14.507	.016	5.92	102.83	
	10	38.12	14.545	.260	-10.44	86.68	
Y2	1	2	-1.44	1.530	.997	-6.37	3.49
		3	-5.10	5.853	.998	-24.38	14.18
		4	7.82	8.437	.997	-20.39	36.03
		5	1.96	1.375	.942	-2.46	6.39
		6	-1.62	1.176	.954	-5.41	2.17
		7	-4.26	2.756	.904	-13.15	4.62
		8	-10.05	1.975	.000	-16.41	-3.69
		9	-21.16	1.925	.000	-27.36	-14.97
		10	-49.20	2.359	.000	-56.80	-41.60
		11	-106.60	21.653	.000	-178.99	-34.21
	2	1	1.44	1.530	.997	-3.49	6.37
		3	-3.66	5.931	1.000	-23.17	15.85
		4	9.26	8.491	.990	-19.10	37.62
		5	3.40	1.677	.628	-2.00	8.80
		6	-.18	1.519	1.000	-5.07	4.71
		7	-2.83	2.919	.997	-12.23	6.58

	8	-8.62	2.196	.004	-15.69	-1.54
	9	-19.72	2.151	.000	-26.65	-12.80
	10	-47.76	2.548	.000	-55.97	-39.56
	11	-105.16	21.674	.000	-177.61	-32.71
3	1	5.10	5.853	.998	-14.18	24.38
	2	3.66	5.931	1.000	-15.85	23.17
	4	12.92	10.199	.972	-20.58	46.42
	5	7.06	5.893	.981	-12.33	26.46
	6	3.48	5.850	1.000	-15.79	22.75
	7	.84	6.359	1.000	-19.97	21.65
	8	-4.95	6.061	.999	-24.86	14.95
	9	-16.06	6.045	.233	-35.92	3.79
	10	-44.10	6.197	.000	-64.42	-23.78
	11	-101.50	22.398	.001	-176.03	-26.97
4	1	-7.82	8.437	.997	-36.03	20.39
	2	-9.26	8.491	.990	-37.62	19.10
	3	-12.92	10.199	.972	-46.42	20.58
	5	-5.86	8.465	1.000	-34.14	22.43
	6	-9.44	8.435	.988	-37.64	18.76
	7	-12.08	8.795	.951	-41.32	17.15
	8	-17.87	8.583	.593	-46.50	10.75
	9	-28.98	8.571	.044	-57.57	-.39
	10	-57.02	8.679	.000	-85.92	-28.12
	11	-114.42	23.208	.000	-191.35	-37.49
5	1	-1.96	1.375	.942	-6.39	2.46
	2	-3.40	1.677	.628	-8.80	2.00
	3	-7.06	5.893	.981	-26.46	12.33
	4	5.86	8.465	1.000	-22.43	34.14
	6	-3.58	1.362	.233	-7.97	.80
	7	-6.23	2.841	.510	-15.38	2.93
	8	-12.02	2.091	.000	-18.75	-5.29
	9	-23.13	2.043	.000	-29.71	-16.55
	10	-51.17	2.457	.000	-59.08	-43.25
	11	-108.56	21.663	.000	-180.98	-36.14
6	1	1.62	1.176	.954	-2.17	5.41
	2	.18	1.519	1.000	-4.71	5.07
	3	-3.48	5.850	1.000	-22.75	15.79
	4	9.44	8.435	.988	-18.76	37.64
	5	3.58	1.362	.233	-.80	7.97
	7	-2.65	2.750	.997	-11.51	6.22
	8	-8.44	1.966	.001	-14.77	-2.10
	9	-19.54	1.916	.000	-25.71	-13.38
	10	-47.58	2.352	.000	-55.16	-40.01
	11	-104.98	21.652	.000	-177.37	-32.59
7	1	4.26	2.756	.904	-4.62	13.15
	2	2.83	2.919	.997	-6.58	12.23
	3	-.84	6.359	1.000	-21.65	19.97
	4	12.08	8.795	.951	-17.15	41.32
	5	6.23	2.841	.510	-2.93	15.38
	6	2.65	2.750	.997	-6.22	11.51
	8	-5.79	3.175	.766	-16.02	4.44
	9	-16.90	3.144	.000	-27.03	-6.77
	10	-44.94	3.427	.000	-55.98	-33.90
	11	-102.33	21.795	.001	-175.13	-29.54
8	1	10.05	1.975	.000	3.69	16.41
	2	8.62	2.196	.004	1.54	15.69
	3	4.95	6.061	.999	-14.95	24.86

	4	17.87	8.583	.593	-10.75	46.50
	5	12.02	2.091	.000	5.29	18.75
	6	8.44	1.966	.001	2.10	14.77
	7	5.79	3.175	.766	-4.44	16.02
	9	-11.11	2.487	.000	-19.12	-3.10
	10	-39.15	2.837	.000	-48.28	-30.01
	11	-96.54	21.710	.002	-169.10	-23.99
9	1	21.16	1.925	.000	14.97	27.36
	2	19.72	2.151	.000	12.80	26.65
	3	16.06	6.045	.233	-3.79	35.92
	4	28.98	8.571	.044	.39	57.57
	5	23.13	2.043	.000	16.55	29.71
	6	19.54	1.916	.000	13.38	25.71
	7	16.90	3.144	.000	6.77	27.03
	8	11.11	2.487	.000	3.10	19.12
	10	-28.04	2.802	.000	-37.06	-19.02
	11	-85.44	21.705	.009	-157.98	-12.90
10	1	49.20	2.359	.000	41.60	56.80
	2	47.76	2.548	.000	39.56	55.97
	3	44.10	6.197	.000	23.78	64.42
	4	57.02	8.679	.000	28.12	85.92
	5	51.17	2.457	.000	43.25	59.08
	6	47.58	2.352	.000	40.01	55.16
	7	44.94	3.427	.000	33.90	55.98
	8	39.15	2.837	.000	30.01	48.28
	9	28.04	2.802	.000	19.02	37.06
	11	-57.40	21.748	.252	-130.06	15.26
11	1	106.60	21.653	.000	34.21	178.99
	2	105.16	21.674	.000	32.71	177.61
	3	101.50	22.398	.001	26.97	176.03
	4	114.42	23.208	.000	37.49	191.35
	5	108.56	21.663	.000	36.14	180.98
	6	104.98	21.652	.000	32.59	177.37
	7	102.33	21.795	.001	29.54	175.13
	8	96.54	21.710	.002	23.99	169.10
	9	85.44	21.705	.009	12.90	157.98
	10	57.40	21.748	.252	-15.26	130.06
Y3	1	-30	1.454	1.000	-4.98	4.38
	3	1.15	5.562	1.000	-17.17	19.46
	4	7.28	7.102	.994	-16.46	31.01
	5	-1.37	1.299	.993	-5.56	2.81
	6	-4.32	1.122	.006	-7.94	-.71
	7	-10.68	2.669	.003	-19.28	-2.07
	8	-11.40	1.917	.000	-17.58	-5.23
	9	-19.57	1.844	.000	-25.51	-13.63
	10	-26.32	2.104	.000	-33.10	-19.55
	11	-60.31	13.726	.002	-106.20	-14.43
	2	.30	1.454	1.000	-4.38	4.98
	3	1.44	5.638	1.000	-17.10	19.99
	4	7.57	7.161	.992	-16.33	31.48
	5	-1.08	1.593	1.000	-6.20	4.05
	6	-4.03	1.452	.169	-8.70	.65
	7	-10.38	2.824	.011	-19.48	-1.28
	8	-11.10	2.128	.000	-17.96	-4.25
	9	-19.27	2.062	.000	-25.91	-12.64
	10	-26.03	2.297	.000	-33.42	-18.63
	11	-60.02	13.757	.002	-105.99	-14.04

3	1	-1.15	5.562	1.000	-19.46	17.17
	2	-1.44	5.638	1.000	-19.99	17.10
	4	6.13	8.950	1.000	-23.21	35.48
	5	-2.52	5.600	1.000	-20.95	15.91
	6	-5.47	5.562	.996	-23.79	12.85
	7	-11.82	6.066	.684	-31.67	8.02
	8	-12.55	5.775	.528	-31.51	6.41
	9	-20.72	5.751	.019	-39.60	-1.83
	10	-27.47	5.839	.000	-46.62	-8.31
	11	-61.46	14.768	.004	-110.38	-12.54
	4	1	-7.28	7.102	.994	-31.01	16.46
2		-7.57	7.161	.992	-31.48	16.33
3		-6.13	8.950	1.000	-35.48	23.21
5		-8.65	7.132	.979	-32.47	15.17
6		-11.60	7.102	.862	-35.34	12.14
7		-17.95	7.503	.385	-42.85	6.94
8		-18.68	7.270	.285	-42.90	5.54
9		-26.85	7.251	.017	-51.01	-2.68
10		-33.60	7.321	.001	-57.97	-9.23
11		-67.59	15.414	.001	-118.48	-16.70
5		1	1.37	1.299	.993	-2.81	5.56
	2	1.08	1.593	1.000	-4.05	6.20
	3	2.52	5.600	1.000	-15.91	20.95
	4	8.65	7.132	.979	-15.17	32.47
	6	-2.95	1.297	.452	-7.13	1.23
	7	-9.30	2.748	.030	-18.16	-.45
	8	-10.03	2.025	.000	-16.55	-3.51
	9	-18.20	1.955	.000	-24.49	-11.90
	10	-24.95	2.202	.000	-32.04	-17.86
	11	-58.94	13.742	.003	-104.87	-13.01
	6	1	4.32	1.122	.006	.71	7.94
2		4.03	1.452	.169	-.65	8.70
3		5.47	5.562	.996	-12.85	23.79
4		11.60	7.102	.862	-12.14	35.34
5		2.95	1.297	.452	-1.23	7.13
7		-6.35	2.669	.380	-14.96	2.25
8		-7.08	1.917	.010	-13.25	-.91
9		-15.25	1.843	.000	-21.18	-9.31
10		-22.00	2.103	.000	-28.77	-15.23
11		-55.99	13.726	.006	-101.87	-10.11
7		1	10.68	2.669	.003	2.07	19.28
	2	10.38	2.824	.011	1.28	19.48
	3	11.82	6.066	.684	-8.02	31.67
	4	17.95	7.503	.385	-6.94	42.85
	5	9.30	2.748	.030	.45	18.16
	6	6.35	2.669	.380	-2.25	14.96
	8	-.72	3.089	1.000	-10.67	9.23
	9	-8.89	3.043	.117	-18.70	.91
	10	-15.65	3.207	.000	-25.98	-5.31
	11	-49.64	13.938	.027	-96.12	-3.15
	8	1	11.40	1.917	.000	5.23	17.58
2		11.10	2.128	.000	4.25	17.96
3		12.55	5.775	.528	-6.41	31.51
4		18.68	7.270	.285	-5.54	42.90
5		10.03	2.025	.000	3.51	16.55
6		7.08	1.917	.010	.91	13.25
7		.72	3.089	1.000	-9.23	10.67

	9	-8.17	2.411	.029	-15.93	-4.1	
	10	-14.92	2.615	.000	-23.34	-6.50	
	11	-48.91	13.814	.029	-95.04	-2.78	
9	1	19.57	1.844	.000	13.63	25.51	
	2	19.27	2.062	.000	12.64	25.91	
	3	20.72	5.751	.019	1.83	39.60	
	4	26.85	7.251	.017	2.68	51.01	
	5	18.20	1.955	.000	11.90	24.49	
	6	15.25	1.843	.000	9.31	21.18	
	7	8.89	3.043	.117	-.91	18.70	
	8	8.17	2.411	.029	.41	15.93	
	10	-6.75	2.562	.230	-15.00	1.50	
	11	-40.74	13.804	.131	-86.85	5.36	
10	1	26.32	2.104	.000	19.55	33.10	
	2	26.03	2.297	.000	18.63	33.42	
	3	27.47	5.839	.000	8.31	46.62	
	4	33.60	7.321	.001	9.23	57.97	
	5	24.95	2.202	.000	17.86	32.04	
	6	22.00	2.103	.000	15.23	28.77	
	7	15.65	3.207	.000	5.31	25.98	
	8	14.92	2.615	.000	6.50	23.34	
	9	6.75	2.562	.230	-1.50	15.00	
	11	-33.99	13.841	.350	-80.20	12.22	
11	1	60.31	13.726	.002	14.43	106.20	
	2	60.02	13.757	.002	14.04	105.99	
	3	61.46	14.768	.004	12.54	110.38	
	4	67.59	15.414	.001	16.70	118.48	
	5	58.94	13.742	.003	13.01	104.87	
	6	55.99	13.726	.006	10.11	101.87	
	7	49.64	13.938	.027	3.15	96.12	
	8	48.91	13.814	.029	2.78	95.04	
	9	40.74	13.804	.131	-5.36	86.85	
	10	33.99	13.841	.350	-12.22	80.20	
Y4	1	2	1.63	1.788	.998	-4.13	7.39
		3	5.00	6.747	1.000	-17.22	27.22
		4	1.99	8.123	1.000	-25.16	29.14
		5	-1.28	1.602	.999	-6.44	3.87
		6	-5.01	1.358	.010	-9.38	-.64
		7	-15.03	3.170	.000	-25.25	-4.81
		8	-18.03	2.287	.000	-25.39	-10.66
		9	-28.98	2.139	.000	-35.86	-22.09
		10	-51.63	2.558	.000	-59.87	-43.39
		11	-63.35	19.498	.064	-128.54	1.83
	2	1	-1.63	1.788	.998	-7.39	4.13
		3	3.37	6.851	1.000	-19.17	25.90
		4	.36	8.210	1.000	-27.03	27.76
		5	-2.91	1.997	.933	-9.34	3.52
		6	-6.64	1.808	.011	-12.46	-.82
		7	-16.66	3.387	.000	-27.58	-5.75
		8	-19.66	2.579	.000	-27.96	-11.35
		9	-30.61	2.449	.000	-38.49	-22.72
		10	-53.26	2.822	.000	-62.35	-44.17
		11	-64.98	19.534	.052	-130.27	.30
	3	1	-5.00	6.747	1.000	-27.22	17.22
		2	-3.37	6.851	1.000	-25.90	19.17
		4	-3.00	10.475	1.000	-37.32	31.31
		5	-6.28	6.805	.998	-28.68	16.11

	6	-10.01	6.752	.922	-32.25	12.23
	7	-20.03	7.335	.197	-44.03	3.97
	8	-23.03	6.998	.049	-46.00	-.05
	9	-33.97	6.951	.000	-56.81	-11.14
	10	-56.63	7.091	.000	-79.89	-33.37
	11	-68.35	20.589	.050	-136.69	-.01
4	1	-1.99	8.123	1.000	-29.14	25.16
	2	-.36	8.210	1.000	-27.76	27.03
	3	3.00	10.475	1.000	-31.31	37.32
	5	-3.28	8.171	1.000	-30.57	24.01
	6	-7.00	8.127	.999	-34.17	20.16
	7	-17.03	8.617	.666	-45.60	11.55
	8	-20.02	8.333	.380	-47.77	7.73
	9	-30.97	8.293	.016	-58.61	-3.33
	10	-53.62	8.411	.000	-81.60	-25.65
	11	-65.35	21.080	.087	-135.17	4.47
5	1	1.28	1.602	.999	-3.87	6.44
	2	2.91	1.997	.933	-3.52	9.34
	3	6.28	6.805	.998	-16.11	28.68
	4	3.28	8.171	1.000	-24.01	30.57
	6	-3.73	1.623	.437	-8.95	1.50
	7	-13.75	3.293	.002	-24.36	-3.14
	8	-16.74	2.453	.000	-24.64	-8.84
	9	-27.69	2.316	.000	-35.15	-20.23
	10	-50.35	2.707	.000	-59.06	-41.63
	11	-62.07	19.518	.076	-127.31	3.17
6	1	5.01	1.358	.010	.64	9.38
	2	6.64	1.808	.011	.82	12.46
	3	10.01	6.752	.922	-12.23	32.25
	4	7.00	8.127	.999	-20.16	34.17
	5	3.73	1.623	.437	-1.50	8.95
	7	-10.02	3.181	.062	-20.28	.23
	8	-13.02	2.302	.000	-20.43	-5.61
	9	-23.97	2.155	.000	-30.91	-17.03
	10	-46.62	2.571	.000	-54.90	-38.34
	11	-58.34	19.500	.120	-123.53	6.85
7	1	15.03	3.170	.000	4.81	25.25
	2	16.66	3.387	.000	5.75	27.58
	3	20.03	7.335	.197	-3.97	44.03
	4	17.03	8.617	.666	-11.55	45.60
	5	13.75	3.293	.002	3.14	24.36
	6	10.02	3.181	.062	-.23	20.28
	8	-3.00	3.675	.999	-14.84	8.84
	9	-13.94	3.585	.005	-25.49	-2.39
	10	-36.60	3.849	.000	-49.00	-24.20
	11	-48.32	19.709	.352	-114.10	17.46
8	1	18.03	2.287	.000	10.66	25.39
	2	19.66	2.579	.000	11.35	27.96
	3	23.03	6.998	.049	.05	46.00
	4	20.02	8.333	.380	-7.73	47.77
	5	16.74	2.453	.000	8.84	24.64
	6	13.02	2.302	.000	5.61	20.43
	7	3.00	3.675	.999	-8.84	14.84
	9	-10.95	2.833	.005	-20.07	-1.83
	10	-33.60	3.161	.000	-43.78	-23.42
	11	-45.32	19.586	.438	-110.76	20.11
9	1	28.98	2.139	.000	22.09	35.86

	2	30.61	2.449	.000	22.72	38.49
	3	33.97	6.951	.000	11.14	56.81
	4	30.97	8.293	.016	3.33	58.61
	5	27.69	2.316	.000	20.23	35.15
	6	23.97	2.155	.000	17.03	30.91
	7	13.94	3.585	.005	2.39	25.49
	8	10.95	2.833	.005	1.83	20.07
	10	-22.65	3.056	.000	-32.49	-12.81
	11	-34.38	19.570	.800	-99.76	31.01
10	1	51.63	2.558	.000	43.39	59.87
	2	53.26	2.822	.000	44.17	62.35
	3	56.63	7.091	.000	33.37	79.89
	4	53.62	8.411	.000	25.65	81.60
	5	50.35	2.707	.000	41.63	59.06
	6	46.62	2.571	.000	38.34	54.90
	7	36.60	3.849	.000	24.20	49.00
	8	33.60	3.161	.000	23.42	43.78
	9	22.65	3.056	.000	12.81	32.49
	11	-11.72	19.620	1.000	-77.25	53.81
11	1	63.35	19.498	.064	-1.83	128.54
	2	64.98	19.534	.052	-.30	130.27
	3	68.35	20.589	.050	.01	136.69
	4	65.35	21.080	.087	-4.47	135.17
	5	62.07	19.518	.076	-3.17	127.31
	6	58.34	19.500	.120	-6.85	123.53
	7	48.32	19.709	.352	-17.46	114.10
	8	45.32	19.586	.438	-20.11	110.76
	9	34.38	19.570	.800	-31.01	99.76
	10	11.72	19.620	1.000	-53.81	77.25
Y9	1	2.76	1.607	.827	-2.41	7.93
	3	2.12	7.234	1.000	-21.71	25.95
	4	5.76	7.577	.999	-19.56	31.09
	5	-2.34	1.447	.876	-7.00	2.32
	6	-7.30	1.275	.000	-11.40	-3.19
	7	-4.13	3.073	.961	-14.03	5.78
	8	-13.74	2.260	.000	-21.01	-6.46
	9	-24.65	2.265	.000	-31.94	-17.35
	10	-64.86	3.085	.000	-74.79	-54.92
	11	-362.71	33.077	.000	-473.30	-252.11
2	1	-2.76	1.607	.827	-7.93	2.41
	3	-.64	7.298	1.000	-24.66	23.39
	4	3.00	7.638	1.000	-22.50	28.50
	5	-5.10	1.739	.114	-10.70	.50
	6	-10.06	1.599	.000	-15.21	-4.91
	7	-6.89	3.221	.549	-17.27	3.49
	8	-16.50	2.457	.000	-24.41	-8.58
	9	-27.41	2.462	.000	-35.33	-19.48
	10	-67.62	3.232	.000	-78.03	-57.21
	11	-365.46	33.091	.000	-476.10	-254.83
3	1	-2.12	7.234	1.000	-25.95	21.71
	2	.64	7.298	1.000	-23.39	24.66
	4	3.64	10.397	1.000	-30.37	37.65
	5	-4.46	7.264	1.000	-28.38	19.46
	6	-9.42	7.232	.966	-33.25	14.41
	7	-6.25	7.754	.999	-31.65	19.15
	8	-15.86	7.469	.563	-40.40	8.68
	9	-26.77	7.470	.021	-51.31	-2.23

	10	-66.98	7.759	.000	-92.40	-41.57
	11	-364.83	33.834	.000	-477.59	-252.07
4	1	-5.76	7.577	.999	-31.09	19.56
	2	-3.00	7.638	1.000	-28.50	22.50
	3	-3.64	10.397	1.000	-37.65	30.37
	5	-8.10	7.606	.992	-33.51	17.31
	6	-13.06	7.576	.817	-38.38	12.26
	7	-9.89	8.075	.978	-36.65	16.87
	8	-19.50	7.802	.323	-45.46	6.47
	9	-30.41	7.803	.009	-56.38	-4.44
	10	-70.62	8.080	.000	-97.40	-43.85
	11	-368.47	33.909	.000	-481.45	-255.49
5	1	2.34	1.447	.876	-2.32	7.00
	2	5.10	1.739	.114	-.50	10.70
	3	4.46	7.264	1.000	-19.46	28.38
	4	8.10	7.606	.992	-17.31	33.51
	6	-4.96	1.439	.024	-9.59	-.33
	7	-1.79	3.144	1.000	-11.92	8.34
	8	-11.40	2.356	.000	-18.99	-3.81
	9	-22.31	2.361	.000	-29.91	-14.71
	10	-62.52	3.156	.000	-72.68	-52.36
	11	-360.37	33.084	.000	-470.98	-249.76
6	1	7.30	1.275	.000	3.19	11.40
	2	10.06	1.599	.000	4.91	15.21
	3	9.42	7.232	.966	-14.41	33.25
	4	13.06	7.576	.817	-12.26	38.38
	5	4.96	1.439	.024	.33	9.59
	7	3.17	3.069	.995	-6.72	13.06
	8	-6.44	2.255	.138	-13.70	.82
	9	-17.35	2.260	.000	-24.62	-10.07
	10	-57.56	3.081	.000	-67.48	-47.64
	11	-355.41	33.077	.000	-466.00	-244.82
7	1	4.13	3.073	.961	-5.78	14.03
	2	6.89	3.221	.549	-3.49	17.27
	3	6.25	7.754	.999	-19.15	31.65
	4	9.89	8.075	.978	-16.87	36.65
	5	1.79	3.144	1.000	-8.34	11.92
	6	-3.17	3.069	.995	-13.06	6.72
	8	-9.61	3.592	.212	-21.18	1.96
	9	-20.52	3.595	.000	-32.10	-8.94
	10	-60.73	4.160	.000	-74.13	-47.33
	11	-358.58	33.195	.000	-469.50	-247.65
8	1	13.74	2.260	.000	6.46	21.01
	2	16.50	2.457	.000	8.58	24.41
	3	15.86	7.469	.563	-8.68	40.40
	4	19.50	7.802	.323	-6.47	45.46
	5	11.40	2.356	.000	3.81	18.99
	6	6.44	2.255	.138	-.82	13.70
	7	9.61	3.592	.212	-1.96	21.18
	9	-10.91	2.930	.009	-20.35	-1.48
	10	-51.12	3.602	.000	-62.72	-39.53
	11	-348.97	33.129	.000	-459.71	-238.23
9	1	24.65	2.265	.000	17.35	31.94
	2	27.41	2.462	.000	19.48	35.33
	3	26.77	7.470	.021	2.23	51.31
	4	30.41	7.803	.009	4.44	56.38
	5	22.31	2.361	.000	14.71	29.91

	6	17.35	2.260	.000	10.07	24.62
	7	20.52	3.595	.000	8.94	32.10
	8	10.91	2.930	.009	1.48	20.35
	10	-40.21	3.605	.000	-51.82	-28.61
	11	-338.06	33.130	.000	-448.80	-227.32
10	1	64.86	3.085	.000	54.92	74.79
	2	67.62	3.232	.000	57.21	78.03
	3	66.98	7.759	.000	41.57	92.40
	4	70.62	8.080	.000	43.85	97.40
	5	62.52	3.156	.000	52.36	72.68
	6	57.56	3.081	.000	47.64	67.48
	7	60.73	4.160	.000	47.33	74.13
	8	51.12	3.602	.000	39.53	62.72
	9	40.21	3.605	.000	28.61	51.82
	11	-297.85	33.196	.000	-408.78	-186.92
11	1	362.71	33.077	.000	252.11	473.30
	2	365.46	33.091	.000	254.83	476.10
	3	364.83	33.834	.000	252.07	477.59
	4	368.47	33.909	.000	255.49	481.45
	5	360.37	33.084	.000	249.76	470.98
	6	355.41	33.077	.000	244.82	466.00
	7	358.58	33.195	.000	247.65	469.50
	8	348.97	33.129	.000	238.23	459.71
	9	338.06	33.130	.000	227.32	448.80
	10	297.85	33.196	.000	186.92	408.78
Y10	1	1.20	1.638	1.000	-4.07	6.48
	3	-.74	6.505	1.000	-22.16	20.69
	4	-.21	7.746	1.000	-26.10	25.68
	5	-1.60	1.446	.991	-6.25	3.06
	6	-5.62	1.243	.000	-9.62	-1.62
	7	-4.56	2.881	.889	-13.85	4.72
	8	-17.47	2.125	.000	-24.32	-10.63
	9	-25.85	2.027	.000	-32.37	-19.32
	10	-51.58	2.493	.000	-59.60	-43.55
	11	-107.72	22.284	.000	-182.22	-33.22
2	1	-1.20	1.638	1.000	-6.48	4.07
	3	-1.94	6.597	1.000	-23.65	19.76
	4	-1.41	7.823	1.000	-27.53	24.70
	5	-2.80	1.818	.906	-8.65	3.06
	6	-6.83	1.661	.002	-12.17	-1.48
	7	-5.77	3.084	.737	-15.71	4.17
	8	-18.68	2.394	.000	-26.39	-10.97
	9	-27.05	2.307	.000	-34.48	-19.62
	10	-52.78	2.725	.000	-61.56	-44.01
	11	-108.92	22.311	.000	-183.50	-34.34
3	1	.74	6.505	1.000	-20.69	22.16
	2	1.94	6.597	1.000	-19.76	23.65
	4	.53	10.042	1.000	-32.36	33.42
	5	-.86	6.553	1.000	-22.43	20.71
	6	-4.89	6.511	1.000	-26.33	16.56
	7	-3.83	7.010	1.000	-26.78	19.13
	8	-16.74	6.735	.324	-38.86	5.38
	9	-25.11	6.705	.012	-47.14	-3.08
	10	-50.84	6.860	.000	-73.34	-28.34
	11	-106.98	23.183	.001	-184.07	-29.89
4	1	.21	7.746	1.000	-25.68	26.10
	2	1.41	7.823	1.000	-24.70	27.53

	3	-.53	10.042	1.000	-33.42	32.36
	5	-1.39	7.786	1.000	-27.39	24.62
	6	-5.41	7.750	1.000	-31.32	20.49
	7	-4.35	8.175	1.000	-31.48	22.77
	8	-17.26	7.940	.530	-43.71	9.18
	9	-25.64	7.914	.064	-52.01	.74
	10	-51.37	8.046	.000	-78.12	-24.61
	11	-107.51	23.561	.001	-185.72	-29.30
5	1	1.60	1.446	.991	-3.06	6.25
	2	2.80	1.818	.906	-3.06	8.65
	3	.86	6.553	1.000	-20.71	22.43
	4	1.39	7.786	1.000	-24.62	27.39
	6	-4.03	1.472	.184	-8.77	.71
	7	-2.97	2.987	.996	-12.59	6.66
	8	-15.88	2.267	.000	-23.18	-8.58
	9	-24.25	2.175	.000	-31.25	-17.25
	10	-49.98	2.614	.000	-58.40	-41.56
	11	-106.13	22.298	.001	-180.67	-31.58
6	1	5.62	1.243	.000	1.62	9.62
	2	6.83	1.661	.002	1.48	12.17
	3	4.89	6.511	1.000	-16.56	26.33
	4	5.41	7.750	1.000	-20.49	31.32
	5	4.03	1.472	.184	-.71	8.77
	7	1.06	2.894	1.000	-8.27	10.39
	8	-11.85	2.143	.000	-18.75	-4.95
	9	-20.22	2.046	.000	-26.81	-13.64
	10	-45.95	2.508	.000	-54.03	-37.88
	11	-102.10	22.286	.001	-176.61	-27.59
7	1	4.56	2.881	.889	-4.72	13.85
	2	5.77	3.084	.737	-4.17	15.71
	3	3.83	7.010	1.000	-19.13	26.78
	4	4.35	8.175	1.000	-22.77	31.48
	5	2.97	2.987	.996	-6.66	12.59
	6	-1.06	2.894	1.000	-10.39	8.27
	8	-12.91	3.369	.006	-23.76	-2.06
	9	-21.28	3.307	.000	-31.94	-10.63
	10	-47.01	3.611	.000	-58.65	-35.38
	11	-103.16	22.437	.001	-178.09	-28.22
8	1	17.47	2.125	.000	10.63	24.32
	2	18.68	2.394	.000	10.97	26.39
	3	16.74	6.735	.324	-5.38	38.86
	4	17.26	7.940	.530	-9.18	43.71
	5	15.88	2.267	.000	8.58	23.18
	6	11.85	2.143	.000	4.95	18.75
	7	12.91	3.369	.006	2.06	23.76
	9	-8.37	2.675	.065	-16.99	.24
	10	-34.10	3.043	.000	-43.90	-24.31
	11	-90.25	22.353	.007	-164.95	-15.55
9	1	25.85	2.027	.000	19.32	32.37
	2	27.05	2.307	.000	19.62	34.48
	3	25.11	6.705	.012	3.08	47.14
	4	25.64	7.914	.064	-.74	52.01
	5	24.25	2.175	.000	17.25	31.25
	6	20.22	2.046	.000	13.64	26.81
	7	21.28	3.307	.000	10.63	31.94
	8	8.37	2.675	.065	-.24	16.99
	10	-25.73	2.975	.000	-35.31	-16.15

	11		-81.88	22.343	.020	-156.55	-7.20
	10	1	51.58	2.493	.000	43.55	59.60
		2	52.78	2.725	.000	44.01	61.56
		3	50.84	6.860	.000	28.34	73.34
		4	51.37	8.046	.000	24.61	78.12
		5	49.98	2.614	.000	41.56	58.40
		6	45.95	2.508	.000	37.88	54.03
		7	47.01	3.611	.000	35.38	58.65
		8	34.10	3.043	.000	24.31	43.90
		9	25.73	2.975	.000	16.15	35.31
		11	-56.14	22.390	.320	-130.95	18.66
	11	1	107.72	22.284	.000	33.22	182.22
		2	108.92	22.311	.000	34.34	183.50
		3	106.98	23.183	.001	29.89	184.07
		4	107.51	23.561	.001	29.30	185.72
		5	106.13	22.298	.001	31.58	180.67
		6	102.10	22.286	.001	27.59	176.61
		7	103.16	22.437	.001	28.22	178.09
		8	90.25	22.353	.007	15.55	164.95
		9	81.88	22.343	.020	7.20	156.55
		10	56.14	22.390	.320	-18.66	130.95
Y11	1	2	-1.84	1.549	.984	-6.83	3.15
		3	5.57	6.201	.998	-14.85	26.00
		4	-3.23	7.470	1.000	-28.20	21.74
		5	-.30	1.390	1.000	-4.77	4.18
		6	1.92	1.202	.884	-1.95	5.79
		7	1.37	2.993	1.000	-8.28	11.02
		8	-5.51	2.160	.275	-12.47	1.45
		9	-19.52	2.070	.000	-26.19	-12.85
		10	-45.48	2.532	.000	-53.63	-37.32
		11	-97.86	21.645	.001	-170.23	-25.50
	2	1	1.84	1.549	.984	-3.15	6.83
		3	7.41	6.286	.983	-13.27	28.09
		4	-1.39	7.541	1.000	-26.56	23.78
		5	1.54	1.730	.998	-4.03	7.11
		6	3.76	1.582	.383	-1.34	8.85
		7	3.21	3.165	.995	-6.99	13.41
		8	-3.67	2.393	.908	-11.38	4.03
		9	-17.68	2.312	.000	-25.13	-10.24
		10	-43.64	2.733	.000	-52.44	-34.84
		11	-96.03	21.670	.002	-168.46	-23.59
	3	1	-5.57	6.201	.998	-26.00	14.85
		2	-7.41	6.286	.983	-28.09	13.27
		4	-8.81	9.639	.998	-40.38	22.77
		5	-5.87	6.249	.997	-26.44	14.70
		6	-3.65	6.209	1.000	-24.11	16.80
		7	-4.21	6.787	1.000	-26.41	18.00
		8	-11.09	6.464	.825	-32.30	10.13
		9	-25.09	6.434	.007	-46.22	-3.97
		10	-51.05	6.597	.000	-72.67	-29.43
		11	-103.44	22.486	.001	-178.23	-28.65
	4	1	3.23	7.470	1.000	-21.74	28.20
		2	1.39	7.541	1.000	-23.78	26.56
		3	8.81	9.639	.998	-22.77	40.38
		5	2.93	7.510	1.000	-22.15	28.01
		6	5.15	7.477	1.000	-19.84	30.14
		7	4.60	7.964	1.000	-21.80	30.99

	8	-2.28	7.690	1.000	-27.88	23.32
	9	-16.29	7.665	.564	-41.82	9.24
	10	-42.25	7.802	.000	-68.17	-16.32
	11	-94.63	22.869	.004	-170.55	-18.71
5	1	.30	1.390	1.000	-4.18	4.77
	2	-1.54	1.730	.998	-7.11	4.03
	3	5.87	6.249	.997	-14.70	26.44
	4	-2.93	7.510	1.000	-28.01	22.15
	6	2.22	1.427	.901	-2.38	6.81
	7	1.67	3.090	1.000	-8.29	11.63
	8	-5.21	2.293	.453	-12.60	2.17
	9	-19.22	2.209	.000	-26.33	-12.11
	10	-45.18	2.646	.000	-53.70	-36.66
	11	-97.57	21.659	.001	-169.97	-25.16
6	1	-1.92	1.202	.884	-5.79	1.95
	2	-3.76	1.582	.383	-8.85	1.34
	3	3.65	6.209	1.000	-16.80	24.11
	4	-5.15	7.477	1.000	-30.14	19.84
	5	-2.22	1.427	.901	-6.81	2.38
	7	-.55	3.010	1.000	-10.25	9.15
	8	-7.43	2.184	.028	-14.47	-.40
	9	-21.44	2.095	.000	-28.19	-14.69
	10	-47.40	2.552	.000	-55.61	-39.18
	11	-99.78	21.648	.001	-172.16	-27.41
7	1	-1.37	2.993	1.000	-11.02	8.28
	2	-3.21	3.165	.995	-13.41	6.99
	3	4.21	6.787	1.000	-18.00	26.41
	4	-4.60	7.964	1.000	-30.99	21.80
	5	-1.67	3.090	1.000	-11.63	8.29
	6	.55	3.010	1.000	-9.15	10.25
	8	-6.88	3.505	.675	-18.17	4.41
	9	-20.89	3.450	.000	-32.00	-9.77
	10	-46.84	3.745	.000	-58.91	-34.78
	11	-99.23	21.820	.001	-172.10	-26.37
8	1	5.51	2.160	.275	-1.45	12.47
	2	3.67	2.393	.908	-4.03	11.38
	3	11.09	6.464	.825	-10.13	32.30
	4	2.28	7.690	1.000	-23.32	27.88
	5	5.21	2.293	.453	-2.17	12.60
	6	7.43	2.184	.028	.40	14.47
	7	6.88	3.505	.675	-4.41	18.17
	9	-14.01	2.759	.000	-22.89	-5.12
	10	-39.97	3.120	.000	-50.01	-29.92
	11	-92.35	21.722	.003	-164.94	-19.77
9	1	19.52	2.070	.000	12.85	26.19
	2	17.68	2.312	.000	10.24	25.13
	3	25.09	6.434	.007	3.97	46.22
	4	16.29	7.665	.564	-9.24	41.82
	5	19.22	2.209	.000	12.11	26.33
	6	21.44	2.095	.000	14.69	28.19
	7	20.89	3.450	.000	9.77	32.00
	8	14.01	2.759	.000	5.12	22.89
	10	-25.96	3.059	.000	-35.80	-16.11
	11	-78.34	21.713	.024	-150.90	-5.78
10	1	45.48	2.532	.000	37.32	53.63
	2	43.64	2.733	.000	34.84	52.44
	3	51.05	6.597	.000	29.43	72.67

	4		42.25	7.802	.000	16.32	68.17
	5		45.18	2.646	.000	36.66	53.70
	6		47.40	2.552	.000	39.18	55.61
	7		46.84	3.745	.000	34.78	58.91
	8		39.97	3.120	.000	29.92	50.01
	9		25.96	3.059	.000	16.11	35.80
	11		-52.39	21.762	.379	-125.09	20.31
11	1		97.86	21.645	.001	25.50	170.23
	2		96.03	21.670	.002	23.59	168.46
	3		103.44	22.486	.001	28.65	178.23
	4		94.63	22.869	.004	18.71	170.55
	5		97.57	21.659	.001	25.16	169.97
	6		99.78	21.648	.001	27.41	172.16
	7		99.23	21.820	.001	26.37	172.10
	8		92.35	21.722	.003	19.77	164.94
	9		78.34	21.713	.024	5.78	150.90
	10		52.39	21.762	.379	-20.31	125.09
Y12	1	2	1.31	1.905	1.000	-4.83	7.44
		3	.40	7.968	1.000	-25.85	26.65
		4	7.42	10.509	1.000	-27.71	42.56
		5	-1.26	1.730	1.000	-6.83	4.31
		6	-1.10	1.445	1.000	-5.75	3.56
		7	-5.44	3.173	.829	-15.67	4.79
		8	-10.11	2.269	.000	-17.41	-2.80
		9	-20.61	2.089	.000	-27.34	-13.89
		10	-34.01	2.321	.000	-41.49	-26.54
		11	-71.82	18.555	.011	-133.84	-9.79
	2	1	-1.31	1.905	1.000	-7.44	4.83
		3	-.91	8.064	1.000	-27.44	25.63
		4	6.12	10.582	1.000	-29.23	41.46
		5	-2.56	2.129	.982	-9.42	4.29
		6	-2.40	1.904	.975	-8.54	3.73
		7	-6.74	3.407	.663	-17.72	4.23
		8	-11.41	2.586	.001	-19.74	-3.09
		9	-21.92	2.430	.000	-29.74	-14.10
		10	-35.32	2.632	.000	-43.79	-26.84
		11	-73.12	18.596	.009	-135.27	-10.98
	3	1	-.40	7.968	1.000	-26.65	25.85
		2	.91	8.064	1.000	-25.63	27.44
		4	7.03	13.109	1.000	-35.97	50.02
		5	-1.66	8.024	1.000	-28.07	24.76
		6	-1.49	7.967	1.000	-27.74	24.75
		7	-5.84	8.453	1.000	-33.55	21.88
		8	-10.51	8.157	.969	-37.32	16.31
		9	-21.01	8.109	.267	-47.68	5.66
		10	-34.41	8.172	.002	-61.27	-7.55
		11	-72.21	20.141	.023	-138.87	-5.55
	4	1	-7.42	10.509	1.000	-42.56	27.71
		2	-6.12	10.582	1.000	-41.46	29.23
		3	-7.03	13.109	1.000	-50.02	35.97
		5	-8.68	10.552	.999	-43.94	26.58
		6	-8.52	10.509	.999	-43.66	26.62
		7	-12.86	10.882	.983	-49.07	23.34
		8	-17.53	10.654	.856	-53.08	18.02
		9	-28.04	10.617	.251	-63.48	7.41
		10	-41.44	10.665	.010	-77.02	-5.86
		11	-79.24	21.275	.014	-149.40	-9.08

5	1	1.26	1.730	1.000	-4.31	6.83
	2	2.56	2.129	.982	-4.29	9.42
	3	1.66	8.024	1.000	-24.76	28.07
	4	8.68	10.552	.999	-26.58	43.94
	6	.16	1.729	1.000	-5.40	5.73
	7	-4.18	3.312	.975	-14.85	6.49
	8	-8.85	2.460	.014	-16.77	-.93
	9	-19.35	2.295	.000	-26.74	-11.96
	10	-32.75	2.508	.000	-40.83	-24.68
	11	-70.56	18.579	.014	-132.65	-8.46
	6	1	1.10	1.445	1.000	-3.56	5.75
2		2.40	1.904	.975	-3.73	8.54
3		1.49	7.967	1.000	-24.75	27.74
4		8.52	10.509	.999	-26.62	43.66
5		-.16	1.729	1.000	-5.73	5.40
7		-4.34	3.173	.956	-14.57	5.88
8		-9.01	2.268	.003	-16.32	-1.71
9		-19.52	2.089	.000	-26.24	-12.79
10		-32.92	2.321	.000	-40.39	-25.44
11		-70.72	18.555	.013	-132.75	-8.69
7		1	5.44	3.173	.829	-4.79	15.67
	2	6.74	3.407	.663	-4.23	17.72
	3	5.84	8.453	1.000	-21.88	33.55
	4	12.86	10.882	.983	-23.34	49.07
	5	4.18	3.312	.975	-6.49	14.85
	6	4.34	3.173	.956	-5.88	14.57
	8	-4.67	3.623	.971	-16.34	7.00
	9	-15.17	3.513	.001	-26.49	-3.85
	10	-28.57	3.656	.000	-40.35	-16.80
	11	-66.38	18.769	.029	-129.01	-3.74
	8	1	10.11	2.269	.000	2.80	17.41
2		11.41	2.586	.001	3.09	19.74
3		10.51	8.157	.969	-16.31	37.32
4		17.53	10.654	.856	-18.02	53.08
5		8.85	2.460	.014	.93	16.77
6		9.01	2.268	.003	1.71	16.32
7		4.67	3.623	.971	-7.00	16.34
9		-10.50	2.724	.006	-19.28	-1.73
10		-23.91	2.906	.000	-33.26	-14.55
11		-61.71	18.637	.054	-123.97	.55
9		1	20.61	2.089	.000	13.89
	2	21.92	2.430	.000	14.10	29.74
	3	21.01	8.109	.267	-5.66	47.68
	4	28.04	10.617	.251	-7.41	63.48
	5	19.35	2.295	.000	11.96	26.74
	6	19.52	2.089	.000	12.79	26.24
	7	15.17	3.513	.001	3.85	26.49
	8	10.50	2.724	.006	1.73	19.28
	10	-13.40	2.768	.000	-22.31	-4.49
	11	-51.20	18.616	.202	-113.40	11.00
	10	1	34.01	2.321	.000	26.54	41.49
2		35.32	2.632	.000	26.84	43.79
3		34.41	8.172	.002	7.55	61.27
4		41.44	10.665	.010	5.86	77.02
5		32.75	2.508	.000	24.68	40.83
6		32.92	2.321	.000	25.44	40.39
7		28.57	3.656	.000	16.80	40.35

	8	23.91	2.906	.000	14.55	33.26
	9	13.40	2.768	.000	4.49	22.31
	11	-37.80	18.643	.631	-100.08	24.48
11	1	71.82	18.555	.011	9.79	133.84
	2	73.12	18.596	.009	10.98	135.27
	3	72.21	20.141	.023	5.55	138.87
	4	79.24	21.275	.014	9.08	149.40
	5	70.56	18.579	.014	8.46	132.65
	6	70.72	18.555	.013	8.69	132.75
	7	66.38	18.769	.029	3.74	129.01
	8	61.71	18.637	.054	-5.55	123.97
	9	51.20	18.616	.202	-11.00	113.40
	10	37.80	18.643	.631	-24.48	100.08
Y13	1	-39	1.761	1.000	-6.06	5.29
	3	-2.45	7.424	1.000	-26.90	22.01
	4	3.27	9.229	1.000	-27.58	34.13
	5	2.30	1.564	.929	-2.73	7.34
	6	-2.04	1.327	.908	-6.31	2.23
	7	-8.02	3.060	.238	-17.88	1.84
	8	-13.82	2.194	.000	-20.88	-6.75
	9	-21.38	2.040	.000	-27.95	-14.81
	10	-37.92	2.368	.000	-45.55	-30.30
	11	-71.18	19.012	.016	-134.74	-7.62
	2	.39	1.761	1.000	-5.29	6.06
	3	-2.06	7.516	1.000	-26.79	22.67
	4	3.66	9.303	1.000	-27.40	34.72
	5	2.69	1.954	.954	-3.60	8.98
	6	-1.65	1.770	.998	-7.35	4.05
	7	-7.63	3.276	.413	-18.19	2.92
	8	-13.43	2.487	.000	-21.44	-5.42
	9	-20.99	2.352	.000	-28.57	-13.42
	10	-37.54	2.642	.000	-46.04	-29.03
	11	-70.79	19.048	.017	-134.45	-7.13
	3	2.45	7.424	1.000	-22.01	26.90
	2	2.06	7.516	1.000	-22.67	26.79
	4	5.72	11.771	1.000	-32.86	44.30
	5	4.75	7.472	1.000	-19.85	29.35
	6	.41	7.426	1.000	-24.05	24.87
	7	-5.58	7.921	1.000	-31.53	20.38
	8	-11.37	7.629	.920	-36.44	13.70
	9	-18.94	7.586	.318	-43.88	6.01
	10	-35.48	7.680	.001	-60.71	-10.25
	11	-68.74	20.367	.042	-136.23	-1.24
	4	-3.27	9.229	1.000	-34.13	27.58
	2	-3.66	9.303	1.000	-34.72	27.40
	3	-5.72	11.771	1.000	-44.30	32.86
	5	-.97	9.267	1.000	-31.93	29.99
	6	-5.31	9.230	1.000	-36.17	25.55
	7	-11.29	9.633	.984	-43.31	20.72
	8	-17.09	9.394	.765	-48.41	14.24
	9	-24.65	9.359	.253	-55.88	6.57
	10	-41.20	9.436	.002	-72.64	-9.75

	11	-74.45	21.092	.026	-144.16	-4.75
5	1	-2.30	1.564	.929	-7.34	2.73
	2	-2.69	1.954	.954	-8.98	3.60
	3	-4.75	7.472	1.000	-29.35	19.85
	4	.97	9.267	1.000	-29.99	31.93
	6	-4.34	1.573	.175	-9.40	.73
	7	-10.32	3.174	.046	-20.55	-.09
	8	-16.12	2.351	.000	-23.69	-8.55
	9	-23.68	2.208	.000	-30.79	-16.57
	10	-40.22	2.514	.000	-48.32	-32.13
	11	-73.48	19.030	.011	-137.09	-9.87
6	1	2.04	1.327	.908	-2.23	6.31
	2	1.65	1.770	.998	-4.05	7.35
	3	-.41	7.426	1.000	-24.87	24.05
	4	5.31	9.230	1.000	-25.55	36.17
	5	4.34	1.573	.175	-.73	9.40
	7	-5.98	3.064	.682	-15.86	3.89
	8	-11.78	2.201	.000	-18.87	-4.69
	9	-19.34	2.047	.000	-25.94	-12.75
	10	-35.89	2.374	.000	-43.53	-28.24
	11	-69.14	19.012	.022	-132.70	-5.58
7	1	8.02	3.060	.238	-1.84	17.88
	2	7.63	3.276	.413	-2.92	18.19
	3	5.58	7.921	1.000	-20.38	31.53
	4	11.29	9.633	.984	-20.72	43.31
	5	10.32	3.174	.046	.09	20.55
	6	5.98	3.064	.682	-3.89	15.86
	8	-5.79	3.528	.864	-17.16	5.57
	9	-13.36	3.434	.005	-24.42	-2.30
	10	-29.90	3.638	.000	-41.62	-18.18
	11	-63.16	19.211	.057	-127.28	.97
8	1	13.82	2.194	.000	6.75	20.88
	2	13.43	2.487	.000	5.42	21.44
	3	11.37	7.629	.920	-13.70	36.44
	4	17.09	9.394	.765	-14.24	48.41
	5	16.12	2.351	.000	8.55	23.69
	6	11.78	2.201	.000	4.69	18.87
	7	5.79	3.528	.864	-5.57	17.16
	9	-7.57	2.692	.154	-16.23	1.10
	10	-24.11	2.948	.000	-33.60	-14.62
	11	-57.36	19.093	.116	-121.15	6.42
9	1	21.38	2.040	.000	14.81	27.95
	2	20.99	2.352	.000	13.42	28.57
	3	18.94	7.586	.318	-6.01	43.88
	4	24.65	9.359	.253	-6.57	55.88
	5	23.68	2.208	.000	16.57	30.79
	6	19.34	2.047	.000	12.75	25.94
	7	13.36	3.434	.005	2.30	24.42
	8	7.57	2.692	.154	-1.10	16.23
	10	-16.54	2.835	.000	-25.67	-7.41

	11	-49.80	19.076	.266	-113.54	13.94
10	1	37.92	2.368	.000	30.30	45.55
	2	37.54	2.642	.000	29.03	46.04
	3	35.48	7.680	.001	10.25	60.71
	4	41.20	9.436	.002	9.75	72.64
	5	40.22	2.514	.000	32.13	48.32
	6	35.89	2.374	.000	28.24	43.53
	7	29.90	3.638	.000	18.18	41.62
	8	24.11	2.948	.000	14.62	33.60
	9	16.54	2.835	.000	7.41	25.67
	11	-33.26	19.113	.809	-97.10	30.59
11	1	71.18	19.012	.016	7.62	134.74
	2	70.79	19.048	.017	7.13	134.45
	3	68.74	20.367	.042	1.24	136.23
	4	74.45	21.092	.026	4.75	144.16
	5	73.48	19.030	.011	9.87	137.09
	6	69.14	19.012	.022	5.58	132.70
	7	63.16	19.211	.057	-9.7	127.28
	8	57.36	19.093	.116	-6.42	121.15
	9	49.80	19.076	.266	-13.94	113.54
	10	33.26	19.113	.809	-30.59	97.10

Based on observed means.

The error term is Mean Square(Error) = 9357.672.

*. The mean difference is significant at the .05 level.

Lampiran 9 Estimasi Parameter MANOVA *Two-Way*

a. Saintek

		Parameter Estimates					
Dependent Variable	Parameter	B	Std. Error	t	Sig.	95% Confidence Interval	
						Lower Bound	Upper Bound
tps_kpu	Intercept	589.123	3.372	174.721	.000	582.514	595.732
	[kode_ptn=1]	-68.814	4.729	-14.552	.000	-78.083	-59.546
	[kode_ptn=2]	-64.951	4.364	-14.885	.000	-73.504	-56.399
	[kode_ptn=3]	-69.228	5.545	-12.485	.000	-80.096	-58.360
	[kode_ptn=4]	-66.669	4.371	-15.254	.000	-75.235	-58.103
	[kode_ptn=5]	-62.094	3.998	-15.532	.000	-69.929	-54.258
	[kode_ptn=6]	-62.340	4.429	-14.074	.000	-71.021	-53.658
	[kode_ptn=7]	-56.396	5.368	-10.507	.000	-66.917	-45.876
	[kode_ptn=8]	-54.747	4.161	-13.157	.000	-62.903	-46.591
	[kode_ptn=9]	-48.286	4.267	-11.317	.000	-56.649	-39.923
	[kode_ptn=10]	-28.191	3.727	-7.563	.000	-35.497	-20.886
	[kode_ptn=11]	0 ^a	.	.	.	.	.
	[kode_gel=1]	-15.443	4.359	-3.543	.000	-23.987	-6.899
	[kode_gel=2]	0 ^a	.	.	.	.	.
[kode_ptn=1] * [kode_gel=1]	19.848	6.158	3.223	.001	7.778	31.918	
[kode_ptn=1] * [kode_gel=2]	0 ^a	.	.	.	.	.
[kode_ptn=2] * [kode_gel=1]	13.327	5.630	2.367	.018	2.291	24.362	
[kode_ptn=2] * [kode_gel=2]	0 ^a	.	.	.	.	.
[kode_ptn=3] * [kode_gel=1]	18.523	7.258	2.552	.011	4.297	32.750	

	[kode_ptn=3] * [kode_gel=2]	0 ^a	.	.	.	.	.	.
	[kode_ptn=4] * [kode_gel=1]	15.432	5.703	2.706	.007	4.254	26.610	.
	[kode_ptn=4] * [kode_gel=2]	0 ^a	.	.	.	.	.	.
	[kode_ptn=5] * [kode_gel=1]	12.970	5.224	2.483	.013	2.731	23.209	.
	[kode_ptn=5] * [kode_gel=2]	0 ^a	.	.	.	.	.	.
	[kode_ptn=6] * [kode_gel=1]	15.604	5.687	2.744	.006	4.457	26.750	.
	[kode_ptn=6] * [kode_gel=2]	0 ^a	.	.	.	.	.	.
	[kode_ptn=7] * [kode_gel=1]	10.233	6.877	1.488	.137	-3.245	23.712	.
	[kode_ptn=7] * [kode_gel=2]	0 ^a	.	.	.	.	.	.
	[kode_ptn=8] * [kode_gel=1]	16.018	5.338	3.000	.003	5.554	26.481	.
	[kode_ptn=8] * [kode_gel=2]	0 ^a	.	.	.	.	.	.
	[kode_ptn=9] * [kode_gel=1]	12.782	5.527	2.313	.021	1.948	23.616	.
	[kode_ptn=9] * [kode_gel=2]	0 ^a	.	.	.	.	.	.
	[kode_ptn=10] * [kode_gel=1]	2.207	4.841	.456	.649	-7.282	11.695	.
	[kode_ptn=10] * [kode_gel=2]	0 ^a	.	.	.	.	.	.
	[kode_ptn=11] * [kode_gel=1]	0 ^a	.	.	.	.	.	.
	[kode_ptn=11] * [kode_gel=2]	0 ^a	.	.	.	.	.	.
tps_kk	Intercept	610.277	3.706	164.666	.000	603.013	617.542	.
	[kode_ptn=1]	-90.053	5.198	-17.326	.000	-100.241	-79.866	.
	[kode_ptn=2]	-88.888	4.796	-18.532	.000	-98.289	-79.487	.
	[kode_ptn=3]	-94.324	6.095	-15.477	.000	-106.270	-82.378	.
	[kode_ptn=4]	-88.626	4.804	-18.449	.000	-98.042	-79.210	.
	[kode_ptn=5]	-82.571	4.394	-18.791	.000	-91.183	-73.958	.
	[kode_ptn=6]	-81.062	4.869	-16.650	.000	-90.605	-71.519	.
	[kode_ptn=7]	-75.941	5.900	-12.872	.000	-87.505	-64.377	.
	[kode_ptn=8]	-69.381	4.574	-15.170	.000	-78.346	-60.417	.
	[kode_ptn=9]	-60.443	4.690	-12.888	.000	-69.635	-51.251	.
	[kode_ptn=10]	-36.831	4.097	-8.989	.000	-44.861	-28.800	.
	[kode_ptn=11]	0 ^a	.	.	.	.	.	.
	[kode_gel=1]	-6.385	4.791	-1.333	.183	-15.776	3.005	.
	[kode_gel=2]	0 ^a	.	.	.	.	.	.
	[kode_ptn=1] * [kode_gel=1]	11.567	6.769	1.709	.087	-1.700	24.834	.
	[kode_ptn=1] * [kode_gel=2]	0 ^a	.	.	.	.	.	.
	[kode_ptn=2] * [kode_gel=1]	5.425	6.189	.877	.381	-6.705	17.555	.
	[kode_ptn=2] * [kode_gel=2]	0 ^a	.	.	.	.	.	.
	[kode_ptn=3] * [kode_gel=1]	15.051	7.978	1.887	.059	-.586	30.689	.
	[kode_ptn=3] * [kode_gel=2]	0 ^a	.	.	.	.	.	.
	[kode_ptn=4] * [kode_gel=1]	5.403	6.268	.862	.389	-6.884	17.689	.
	[kode_ptn=4] * [kode_gel=2]	0 ^a	.	.	.	.	.	.
	[kode_ptn=5] * [kode_gel=1]	1.827	5.742	.318	.750	-9.427	13.082	.
	[kode_ptn=5] * [kode_gel=2]	0 ^a	.	.	.	.	.	.
	[kode_ptn=6] * [kode_gel=1]	7.269	6.251	1.163	.245	-4.983	19.520	.
	[kode_ptn=6] * [kode_gel=2]	0 ^a	.	.	.	.	.	.
	[kode_ptn=7] * [kode_gel=1]	4.727	7.559	.625	.532	-10.089	19.542	.
	[kode_ptn=7] * [kode_gel=2]	0 ^a	.	.	.	.	.	.
	[kode_ptn=8] * [kode_gel=1]	3.897	5.868	.664	.507	-7.604	15.399	.
	[kode_ptn=8] * [kode_gel=2]	0 ^a	.	.	.	.	.	.
	[kode_ptn=9] * [kode_gel=1]	-1.303	6.075	-.214	.830	-13.211	10.605	.
	[kode_ptn=9] * [kode_gel=2]	0 ^a	.	.	.	.	.	.
	[kode_ptn=10] * [kode_gel=1]	-8.363	5.321	-1.572	.116	-18.792	2.067	.
	[kode_ptn=10] * [kode_gel=2]	0 ^a	.	.	.	.	.	.
	[kode_ptn=11] * [kode_gel=1]	0 ^a	.	.	.	.	.	.
	[kode_ptn=11] * [kode_gel=2]	0 ^a	.	.	.	.	.	.
tps_pdpu	Intercept	551.142	2.917	188.938	.000	545.424	556.859	.
	[kode_ptn=1]	-36.514	4.091	-8.925	.000	-44.532	-28.495	.

[kode_ptn=2]	-35.454	3.775	-9.391	.000	-42.853	-28.054
[kode_ptn=3]	-41.482	4.797	-8.648	.000	-50.884	-32.080
[kode_ptn=4]	-37.191	3.781	-9.836	.000	-44.602	-29.780
[kode_ptn=5]	-31.328	3.459	-9.058	.000	-38.107	-24.549
[kode_ptn=6]	-33.333	3.832	-8.698	.000	-40.844	-25.822
[kode_ptn=7]	-28.600	4.644	-6.159	.000	-37.702	-19.499
[kode_ptn=8]	-26.980	3.600	-7.495	.000	-34.036	-19.924
[kode_ptn=9]	-21.729	3.691	-5.887	.000	-28.964	-14.494
[kode_ptn=10]	-8.755	3.225	-2.715	.007	-15.076	-2.435
[kode_ptn=11]	0 ^a	.	.	.	.	.
[kode_gel=1]	.665	3.771	.176	.860	-6.726	8.057
[kode_gel=2]	0 ^a	.	.	.	.	.
[kode_ptn=1] * [kode_gel=1]	1.478	5.328	.277	.781	-8.964	11.920
[kode_ptn=1] * [kode_gel=2]	0 ^a	.	.	.	.	.
[kode_ptn=2] * [kode_gel=1]	-1.513	4.871	-.311	.756	-11.060	8.034
[kode_ptn=2] * [kode_gel=2]	0 ^a	.	.	.	.	.
[kode_ptn=3] * [kode_gel=1]	5.339	6.280	.850	.395	-6.969	17.647
[kode_ptn=3] * [kode_gel=2]	0 ^a	.	.	.	.	.
[kode_ptn=4] * [kode_gel=1]	-.203	4.934	-.041	.967	-9.874	9.467
[kode_ptn=4] * [kode_gel=2]	0 ^a	.	.	.	.	.
[kode_ptn=5] * [kode_gel=1]	-5.801	4.519	-1.284	.199	-14.659	3.057
[kode_ptn=5] * [kode_gel=2]	0 ^a	.	.	.	.	.
[kode_ptn=6] * [kode_gel=1]	-1.103	4.920	-.224	.823	-10.746	8.540
[kode_ptn=6] * [kode_gel=2]	0 ^a	.	.	.	.	.
[kode_ptn=7] * [kode_gel=1]	-2.156	5.949	-.362	.717	-13.817	9.505
[kode_ptn=7] * [kode_gel=2]	0 ^a	.	.	.	.	.
[kode_ptn=8] * [kode_gel=1]	1.252	4.618	.271	.786	-7.800	10.305
[kode_ptn=8] * [kode_gel=2]	0 ^a	.	.	.	.	.
[kode_ptn=9] * [kode_gel=1]	-3.410	4.782	-.713	.476	-12.782	5.963
[kode_ptn=9] * [kode_gel=2]	0 ^a	.	.	.	.	.
[kode_ptn=10] * [kode_gel=1]	-6.081	4.188	-1.452	.147	-14.290	2.128
[kode_ptn=10] * [kode_gel=2]	0 ^a	.	.	.	.	.
[kode_ptn=11] * [kode_gel=1]	0 ^a	.	.	.	.	.
[kode_ptn=11] * [kode_gel=2]	0 ^a	.	.	.	.	.
tps_kmbdm Intercept	603.473	3.368	179.192	.000	596.872	610.073
[kode_ptn=1]	-86.086	4.723	-18.227	.000	-95.344	-76.829
[kode_ptn=2]	-85.030	4.358	-19.509	.000	-93.572	-76.487
[kode_ptn=3]	-85.301	5.538	-15.402	.000	-96.156	-74.446
[kode_ptn=4]	-83.276	4.365	-19.077	.000	-91.832	-74.720
[kode_ptn=5]	-78.217	3.993	-19.589	.000	-86.044	-70.391
[kode_ptn=6]	-78.877	4.424	-17.829	.000	-87.548	-70.205
[kode_ptn=7]	-75.483	5.361	-14.080	.000	-85.991	-64.975
[kode_ptn=8]	-70.343	4.156	-16.925	.000	-78.489	-62.197
[kode_ptn=9]	-62.904	4.262	-14.761	.000	-71.256	-54.551
[kode_ptn=10]	-40.044	3.723	-10.756	.000	-47.341	-32.747
[kode_ptn=11]	0 ^a	.	.	.	.	.
[kode_gel=1]	-20.098	4.354	-4.616	.000	-28.631	-11.564
[kode_gel=2]	0 ^a	.	.	.	.	.
[kode_ptn=1] * [kode_gel=1]	25.225	6.151	4.101	.000	13.170	37.281
[kode_ptn=1] * [kode_gel=2]	0 ^a	.	.	.	.	.
[kode_ptn=2] * [kode_gel=1]	19.890	5.624	3.537	.000	8.868	30.913
[kode_ptn=2] * [kode_gel=2]	0 ^a	.	.	.	.	.
[kode_ptn=3] * [kode_gel=1]	23.481	7.250	3.239	.001	9.272	37.691
[kode_ptn=3] * [kode_gel=2]	0 ^a	.	.	.	.	.
[kode_ptn=4] * [kode_gel=1]	20.940	5.696	3.676	.000	9.776	32.105
[kode_ptn=4] * [kode_gel=2]	0 ^a	.	.	.	.	.
[kode_ptn=5] * [kode_gel=1]	17.780	5.218	3.408	.001	7.554	28.007

	[kode_ptn=5] * [kode_gel=2]	0 ^a	.	.	.	.	.	.
	[kode_ptn=6] * [kode_gel=1]	22.191	5.680	3.907	.000	11.058	33.324	.
	[kode_ptn=6] * [kode_gel=2]	0 ^a	.	.	.	.	.	.
	[kode_ptn=7] * [kode_gel=1]	15.132	6.869	2.203	.028	1.670	28.595	.
	[kode_ptn=7] * [kode_gel=2]	0 ^a	.	.	.	.	.	.
	[kode_ptn=8] * [kode_gel=1]	20.683	5.332	3.879	.000	10.232	31.134	.
	[kode_ptn=8] * [kode_gel=2]	0 ^a	.	.	.	.	.	.
	[kode_ptn=9] * [kode_gel=1]	17.674	5.521	3.201	.001	6.853	28.495	.
	[kode_ptn=9] * [kode_gel=2]	0 ^a	.	.	.	.	.	.
	[kode_ptn=10] * [kode_gel=1]	9.200	4.835	1.903	.057	-278	18.677	.
	[kode_ptn=10] * [kode_gel=2]	0 ^a	.	.	.	.	.	.
	[kode_ptn=11] * [kode_gel=1]	0 ^a	.	.	.	.	.	.
	[kode_ptn=11] * [kode_gel=2]	0 ^a	.	.	.	.	.	.
sain_mat	Intercept	610.468	3.164	192.970	.000	604.267	616.669	.
	[kode_ptn=1]	-104.048	4.437	-23.451	.000	-112.744	-95.351	.
	[kode_ptn=2]	-103.732	4.094	-25.337	.000	-111.757	-95.708	.
	[kode_ptn=3]	-105.421	5.202	-20.264	.000	-115.618	-95.225	.
	[kode_ptn=4]	-103.601	4.101	-25.265	.000	-111.638	-95.564	.
	[kode_ptn=5]	-101.221	3.751	-26.986	.000	-108.572	-93.869	.
	[kode_ptn=6]	-102.213	4.156	-24.595	.000	-110.358	-94.067	.
	[kode_ptn=7]	-96.240	5.036	-19.110	.000	-106.111	-86.370	.
	[kode_ptn=8]	-92.885	3.904	-23.792	.000	-100.537	-85.233	.
	[kode_ptn=9]	-90.867	4.003	-22.699	.000	-98.714	-83.021	.
	[kode_ptn=10]	-72.052	3.497	-20.603	.000	-78.907	-65.198	.
	[kode_ptn=11]	0 ^a	.	.	.	.	.	.
	[kode_gel=1]	-37.191	4.090	-9.094	.000	-45.207	-29.175	.
	[kode_gel=2]	0 ^a	.	.	.	.	.	.
	[kode_ptn=1] * [kode_gel=1]	39.230	5.778	6.790	.000	27.905	50.554	.
	[kode_ptn=1] * [kode_gel=2]	0 ^a	.	.	.	.	.	.
	[kode_ptn=2] * [kode_gel=1]	35.178	5.283	6.659	.000	24.824	45.532	.
	[kode_ptn=2] * [kode_gel=2]	0 ^a	.	.	.	.	.	.
	[kode_ptn=3] * [kode_gel=1]	38.482	6.810	5.651	.000	25.133	51.830	.
	[kode_ptn=3] * [kode_gel=2]	0 ^a	.	.	.	.	.	.
	[kode_ptn=4] * [kode_gel=1]	36.841	5.351	6.885	.000	26.354	47.329	.
	[kode_ptn=4] * [kode_gel=2]	0 ^a	.	.	.	.	.	.
	[kode_ptn=5] * [kode_gel=1]	36.126	4.901	7.371	.000	26.520	45.732	.
	[kode_ptn=5] * [kode_gel=2]	0 ^a	.	.	.	.	.	.
	[kode_ptn=6] * [kode_gel=1]	37.178	5.336	6.968	.000	26.720	47.636	.
	[kode_ptn=6] * [kode_gel=2]	0 ^a	.	.	.	.	.	.
	[kode_ptn=7] * [kode_gel=1]	32.821	6.452	5.087	.000	20.175	45.468	.
	[kode_ptn=7] * [kode_gel=2]	0 ^a	.	.	.	.	.	.
	[kode_ptn=8] * [kode_gel=1]	31.447	5.009	6.278	.000	21.630	41.264	.
	[kode_ptn=8] * [kode_gel=2]	0 ^a	.	.	.	.	.	.
	[kode_ptn=9] * [kode_gel=1]	37.136	5.186	7.161	.000	26.972	47.301	.
	[kode_ptn=9] * [kode_gel=2]	0 ^a	.	.	.	.	.	.
	[kode_ptn=10] * [kode_gel=1]	26.125	4.542	5.752	.000	17.223	35.028	.
	[kode_ptn=10] * [kode_gel=2]	0 ^a	.	.	.	.	.	.
	[kode_ptn=11] * [kode_gel=1]	0 ^a	.	.	.	.	.	.
	[kode_ptn=11] * [kode_gel=2]	0 ^a	.	.	.	.	.	.
sain_fis	Intercept	596.910	3.266	182.766	.000	590.508	603.311	.
	[kode_ptn=1]	-94.731	4.580	-20.682	.000	-103.709	-85.753	.
	[kode_ptn=2]	-95.167	4.227	-22.515	.000	-103.452	-86.883	.
	[kode_ptn=3]	-94.869	5.371	-17.664	.000	-105.396	-84.342	.
	[kode_ptn=4]	-91.362	4.233	-21.581	.000	-99.659	-83.064	.
	[kode_ptn=5]	-88.900	3.872	-22.958	.000	-96.489	-81.310	.
	[kode_ptn=6]	-85.038	4.290	-19.820	.000	-93.448	-76.629	.
	[kode_ptn=7]	-85.516	5.199	-16.448	.000	-95.706	-75.325	.

	[kode_ptn=8]	-78.575	4.031	-19.495	.000	-86.475	-70.676
	[kode_ptn=9]	-70.167	4.133	-16.978	.000	-78.268	-62.067
	[kode_ptn=10]	-51.038	3.611	-14.136	.000	-58.115	-43.961
	[kode_ptn=11]	0 ^a	.	.	.	.	.
	[kode_gel=1]	-18.030	4.222	-4.270	.000	-26.306	-9.755
	[kode_gel=2]	0 ^a	.	.	.	.	.
	[kode_ptn=1] * [kode_gel=1]	22.385	5.965	3.753	.000	10.693	34.076
	[kode_ptn=1] * [kode_gel=2]	0 ^a	.	.	.	.	.
	[kode_ptn=2] * [kode_gel=1]	18.862	5.454	3.459	.001	8.173	29.552
	[kode_ptn=2] * [kode_gel=2]	0 ^a	.	.	.	.	.
	[kode_ptn=3] * [kode_gel=1]	25.666	7.031	3.651	.000	11.886	39.446
	[kode_ptn=3] * [kode_gel=2]	0 ^a	.	.	.	.	.
	[kode_ptn=4] * [kode_gel=1]	16.508	5.524	2.988	.003	5.681	27.335
	[kode_ptn=4] * [kode_gel=2]	0 ^a	.	.	.	.	.
	[kode_ptn=5] * [kode_gel=1]	19.812	5.060	3.916	.000	9.895	29.730
	[kode_ptn=5] * [kode_gel=2]	0 ^a	.	.	.	.	.
	[kode_ptn=6] * [kode_gel=1]	18.028	5.508	3.273	.001	7.231	28.824
	[kode_ptn=6] * [kode_gel=2]	0 ^a	.	.	.	.	.
	[kode_ptn=7] * [kode_gel=1]	21.286	6.661	3.196	.001	8.231	34.342
	[kode_ptn=7] * [kode_gel=2]	0 ^a	.	.	.	.	.
	[kode_ptn=8] * [kode_gel=1]	16.621	5.171	3.214	.001	6.486	26.756
	[kode_ptn=8] * [kode_gel=2]	0 ^a	.	.	.	.	.
	[kode_ptn=9] * [kode_gel=1]	18.557	5.354	3.466	.001	8.063	29.051
	[kode_ptn=9] * [kode_gel=2]	0 ^a	.	.	.	.	.
	[kode_ptn=10] * [kode_gel=1]	8.901	4.689	1.898	.058	-.289	18.092
	[kode_ptn=10] * [kode_gel=2]	0 ^a	.	.	.	.	.
	[kode_ptn=11] * [kode_gel=1]	0 ^a	.	.	.	.	.
	[kode_ptn=11] * [kode_gel=2]	0 ^a	.	.	.	.	.
sain_kim	Intercept	597.756	3.589	166.548	.000	590.721	604.790
	[kode_ptn=1]	-96.086	5.034	-19.089	.000	-105.952	-86.220
	[kode_ptn=2]	-91.411	4.645	-19.680	.000	-100.515	-82.306
	[kode_ptn=3]	-91.824	5.902	-15.558	.000	-103.392	-80.255
	[kode_ptn=4]	-89.309	4.652	-19.197	.000	-98.427	-80.190
	[kode_ptn=5]	-86.875	4.255	-20.415	.000	-95.216	-78.535
	[kode_ptn=6]	-91.935	4.715	-19.499	.000	-101.177	-82.694
	[kode_ptn=7]	-82.498	5.713	-14.439	.000	-93.697	-71.300
	[kode_ptn=8]	-79.403	4.429	-17.927	.000	-88.085	-70.722
	[kode_ptn=9]	-74.060	4.542	-16.307	.000	-82.962	-65.159
	[kode_ptn=10]	-52.544	3.968	-13.243	.000	-60.321	-44.767
	[kode_ptn=11]	0 ^a	.	.	.	.	.
	[kode_gel=1]	-23.634	4.640	-5.094	.000	-32.728	-14.540
	[kode_gel=2]	0 ^a	.	.	.	.	.
	[kode_ptn=1] * [kode_gel=1]	27.320	6.555	4.168	.000	14.472	40.168
	[kode_ptn=1] * [kode_gel=2]	0 ^a	.	.	.	.	.
	[kode_ptn=2] * [kode_gel=1]	21.643	5.993	3.611	.000	9.896	33.390
	[kode_ptn=2] * [kode_gel=2]	0 ^a	.	.	.	.	.
	[kode_ptn=3] * [kode_gel=1]	25.554	7.726	3.307	.001	10.410	40.698
	[kode_ptn=3] * [kode_gel=2]	0 ^a	.	.	.	.	.
	[kode_ptn=4] * [kode_gel=1]	18.258	6.070	3.008	.003	6.360	30.156
	[kode_ptn=4] * [kode_gel=2]	0 ^a	.	.	.	.	.
	[kode_ptn=5] * [kode_gel=1]	23.227	5.560	4.177	.000	12.328	34.126
	[kode_ptn=5] * [kode_gel=2]	0 ^a	.	.	.	.	.
	[kode_ptn=6] * [kode_gel=1]	29.307	6.053	4.841	.000	17.442	41.172
	[kode_ptn=6] * [kode_gel=2]	0 ^a	.	.	.	.	.
	[kode_ptn=7] * [kode_gel=1]	21.546	7.320	2.943	.003	7.199	35.894
	[kode_ptn=7] * [kode_gel=2]	0 ^a	.	.	.	.	.
	[kode_ptn=8] * [kode_gel=1]	22.800	5.683	4.012	.000	11.662	33.938

	[kode_ptn=8] * [kode_gel=2]	0 ^a	.	.	.	.	.
	[kode_ptn=9] * [kode_gel=1]	20.828	5.884	3.540	.000	9.296	32.360
	[kode_ptn=9] * [kode_gel=2]	0 ^a	.	.	.	.	.
	[kode_ptn=10] * [kode_gel=1]	9.466	5.153	1.837	.066	-6.634	19.566
	[kode_ptn=10] * [kode_gel=2]	0 ^a	.	.	.	.	.
	[kode_ptn=11] * [kode_gel=1]	0 ^a	.	.	.	.	.
	[kode_ptn=11] * [kode_gel=2]	0 ^a	.	.	.	.	.
sain_bio	Intercept	574.832	3.103	185.269	.000	568.751	580.914
	[kode_ptn=1]	-73.847	4.351	-16.971	.000	-82.375	-65.318
	[kode_ptn=2]	-71.900	4.015	-17.906	.000	-79.770	-64.030
	[kode_ptn=3]	-74.640	5.102	-14.629	.000	-84.640	-64.639
	[kode_ptn=4]	-68.896	4.022	-17.131	.000	-76.778	-61.013
	[kode_ptn=5]	-63.970	3.679	-17.389	.000	-71.180	-56.759
	[kode_ptn=6]	-67.695	4.076	-16.608	.000	-75.684	-59.706
	[kode_ptn=7]	-56.939	4.939	-11.528	.000	-66.620	-47.258
	[kode_ptn=8]	-56.153	3.829	-14.665	.000	-63.658	-48.648
	[kode_ptn=9]	-56.441	3.926	-14.376	.000	-64.136	-48.746
	[kode_ptn=10]	-37.029	3.430	-10.796	.000	-43.752	-30.306
	[kode_ptn=11]	0 ^a	.	.	.	.	.
	[kode_gel=1]	-18.103	4.011	-4.513	.000	-25.965	-10.242
	[kode_gel=2]	0 ^a	.	.	.	.	.
	[kode_ptn=1] * [kode_gel=1]	21.233	5.667	3.747	.000	10.126	32.340
	[kode_ptn=1] * [kode_gel=2]	0 ^a	.	.	.	.	.
	[kode_ptn=2] * [kode_gel=1]	16.456	5.181	3.176	.001	6.301	26.611
	[kode_ptn=2] * [kode_gel=2]	0 ^a	.	.	.	.	.
	[kode_ptn=3] * [kode_gel=1]	23.009	6.679	3.445	.001	9.917	36.100
	[kode_ptn=3] * [kode_gel=2]	0 ^a	.	.	.	.	.
	[kode_ptn=4] * [kode_gel=1]	16.336	5.248	3.113	.002	6.050	26.621
	[kode_ptn=4] * [kode_gel=2]	0 ^a	.	.	.	.	.
	[kode_ptn=5] * [kode_gel=1]	14.500	4.807	3.016	.003	5.078	23.922
	[kode_ptn=5] * [kode_gel=2]	0 ^a	.	.	.	.	.
	[kode_ptn=6] * [kode_gel=1]	21.215	5.233	4.054	.000	10.958	31.472
	[kode_ptn=6] * [kode_gel=2]	0 ^a	.	.	.	.	.
	[kode_ptn=7] * [kode_gel=1]	17.280	6.328	2.731	.006	4.877	29.683
	[kode_ptn=7] * [kode_gel=2]	0 ^a	.	.	.	.	.
	[kode_ptn=8] * [kode_gel=1]	16.411	4.912	3.341	.001	6.782	26.039
	[kode_ptn=8] * [kode_gel=2]	0 ^a	.	.	.	.	.
	[kode_ptn=9] * [kode_gel=1]	14.259	5.086	2.803	.005	4.290	24.228
	[kode_ptn=9] * [kode_gel=2]	0 ^a	.	.	.	.	.
	[kode_ptn=10] * [kode_gel=1]	7.684	4.455	1.725	.085	-1.048	16.415
	[kode_ptn=10] * [kode_gel=2]	0 ^a	.	.	.	.	.
	[kode_ptn=11] * [kode_gel=1]	0 ^a	.	.	.	.	.
	[kode_ptn=11] * [kode_gel=2]	0 ^a	.	.	.	.	.

a. This parameter is set to zero because it is redundant.

b. Soshum

		Parameter Estimates					
Dependent Variable	Parameter	B	Std. Error	t	Sig.	95% Confidence Interval	
						Lower Bound	Upper Bound
tps_kpu	Intercept	590.658	14.605	40.442	.000	562.032	619.284
	[kode_ptn=1]	-91.199	14.810	-6.158	.000	-120.227	-62.170
	[kode_ptn=2]	-88.404	14.932	-5.920	.000	-117.672	-59.136

	[kode_ptn=3]	-81.764	19.641	-4.163	.000	-120.261	-43.268
	[kode_ptn=4]	-94.875	19.736	-4.807	.000	-133.559	-56.192
	[kode_ptn=5]	-89.576	14.758	-6.070	.000	-118.502	-60.650
	[kode_ptn=6]	-88.030	14.673	-5.999	.000	-116.790	-59.270
	[kode_ptn=7]	-75.549	15.133	-4.992	.000	-105.211	-45.888
	[kode_ptn=8]	-77.290	14.842	-5.207	.000	-106.382	-48.199
	[kode_ptn=9]	-62.049	14.772	-4.200	.000	-91.003	-33.094
	[kode_ptn=10]	-44.037	14.766	-2.982	.003	-72.978	-15.096
	[kode_ptn=11]	0 ^a	.	.	.	.	.
	[kode_gel=1]	-32.366	23.474	-1.379	.168	-78.376	13.644
	[kode_gel=2]	0 ^a	.	.	.	.	.
	[kode_ptn=1] * [kode_gel=1]	33.587	23.694	1.418	.156	-12.855	80.028
	[kode_ptn=1] * [kode_gel=2]	0 ^a	.	.	.	.	.
	[kode_ptn=2] * [kode_gel=1]	29.073	23.824	1.220	.222	-17.623	75.769
	[kode_ptn=2] * [kode_gel=2]	0 ^a	.	.	.	.	.
	[kode_ptn=3] * [kode_gel=1]	17.688	29.706	.595	.552	-40.536	75.912
	[kode_ptn=3] * [kode_gel=2]	0 ^a	.	.	.	.	.
	[kode_ptn=4] * [kode_gel=1]	18.517	35.603	.520	.603	-51.267	88.301
	[kode_ptn=4] * [kode_gel=2]	0 ^a	.	.	.	.	.
	[kode_ptn=5] * [kode_gel=1]	31.846	23.662	1.346	.178	-14.533	78.225
	[kode_ptn=5] * [kode_gel=2]	0 ^a	.	.	.	.	.
	[kode_ptn=6] * [kode_gel=1]	32.075	23.549	1.362	.173	-14.081	78.231
	[kode_ptn=6] * [kode_gel=2]	0 ^a	.	.	.	.	.
	[kode_ptn=7] * [kode_gel=1]	22.339	24.033	.930	.353	-24.766	69.445
	[kode_ptn=7] * [kode_gel=2]	0 ^a	.	.	.	.	.
	[kode_ptn=8] * [kode_gel=1]	30.779	23.719	1.298	.194	-15.710	77.269
	[kode_ptn=8] * [kode_gel=2]	0 ^a	.	.	.	.	.
	[kode_ptn=9] * [kode_gel=1]	24.165	23.651	1.022	.307	-22.191	70.521
	[kode_ptn=9] * [kode_gel=2]	0 ^a	.	.	.	.	.
	[kode_ptn=10] * [kode_gel=1]	19.784	23.665	.836	.403	-26.600	66.167
	[kode_ptn=10] * [kode_gel=2]	0 ^a	.	.	.	.	.
	[kode_ptn=11] * [kode_gel=1]	0 ^a	.	.	.	.	.
	[kode_ptn=11] * [kode_gel=2]	0 ^a	.	.	.	.	.
tps_kk	Intercept	611.921	14.501	42.198	.000	583.498	640.344
	[kode_ptn=1]	-122.541	14.705	-8.333	.000	-151.363	-93.718
	[kode_ptn=2]	-118.237	14.826	-7.975	.000	-147.297	-89.177
	[kode_ptn=3]	-116.368	19.501	-5.967	.000	-154.591	-78.145
	[kode_ptn=4]	-128.160	19.596	-6.540	.000	-166.569	-89.752
	[kode_ptn=5]	-123.891	14.653	-8.455	.000	-152.611	-95.171
	[kode_ptn=6]	-120.198	14.569	-8.250	.000	-148.754	-91.643
	[kode_ptn=7]	-117.313	15.026	-7.808	.000	-146.763	-87.862
	[kode_ptn=8]	-109.119	14.737	-7.404	.000	-138.004	-80.234
	[kode_ptn=9]	-97.801	14.667	-6.668	.000	-126.550	-69.052
	[kode_ptn=10]	-65.990	14.661	-4.501	.000	-94.726	-37.255
	[kode_ptn=11]	0 ^a	.	.	.	.	.
	[kode_gel=1]	-39.921	23.307	-1.713	.087	-85.604	5.762
	[kode_gel=2]	0 ^a	.	.	.	.	.
	[kode_ptn=1] * [kode_gel=1]	40.759	23.526	1.733	.083	-5.352	86.870
	[kode_ptn=1] * [kode_gel=2]	0 ^a	.	.	.	.	.
	[kode_ptn=2] * [kode_gel=1]	35.856	23.655	1.516	.130	-10.508	82.220
	[kode_ptn=2] * [kode_gel=2]	0 ^a	.	.	.	.	.
	[kode_ptn=3] * [kode_gel=1]	38.799	29.494	1.315	.188	-19.011	96.610
	[kode_ptn=3] * [kode_gel=2]	0 ^a	.	.	.	.	.

	[kode_ptn=4] * [kode_gel=1]	32.960	35.350	.932	.351	-36.328	102.248
	[kode_ptn=4] * [kode_gel=2]	0 ^a	.	.	.	.	.
	[kode_ptn=5] * [kode_gel=1]	39.674	23.494	1.689	.091	-6.376	85.723
	[kode_ptn=5] * [kode_gel=2]	0 ^a	.	.	.	.	.
	[kode_ptn=6] * [kode_gel=1]	39.507	23.381	1.690	.091	-6.321	85.335
	[kode_ptn=6] * [kode_gel=2]	0 ^a	.	.	.	.	.
	[kode_ptn=7] * [kode_gel=1]	39.117	23.862	1.639	.101	-7.653	85.888
	[kode_ptn=7] * [kode_gel=2]	0 ^a	.	.	.	.	.
	[kode_ptn=8] * [kode_gel=1]	35.170	23.550	1.493	.135	-10.989	81.329
	[kode_ptn=8] * [kode_gel=2]	0 ^a	.	.	.	.	.
	[kode_ptn=9] * [kode_gel=1]	34.700	23.482	1.478	.139	-11.326	80.727
	[kode_ptn=9] * [kode_gel=2]	0 ^a	.	.	.	.	.
	[kode_ptn=10] * [kode_gel=1]	26.864	23.496	1.143	.253	-19.190	72.917
	[kode_ptn=10] * [kode_gel=2]	0 ^a	.	.	.	.	.
	[kode_ptn=11] * [kode_gel=1]	0 ^a	.	.	.	.	.
	[kode_ptn=11] * [kode_gel=2]	0 ^a	.	.	.	.	.
tps_pdpu	Intercept	568.158	13.647	41.632	.000	541.409	594.907
	[kode_ptn=1]	-64.673	13.839	-4.673	.000	-91.798	-37.548
	[kode_ptn=2]	-64.356	13.953	-4.612	.000	-91.705	-37.007
	[kode_ptn=3]	-64.562	18.353	-3.518	.000	-100.534	-28.590
	[kode_ptn=4]	-67.093	18.442	-3.638	.000	-103.239	-30.946
	[kode_ptn=5]	-62.793	13.790	-4.554	.000	-89.822	-35.764
	[kode_ptn=6]	-58.288	13.711	-4.251	.000	-85.161	-31.414
	[kode_ptn=7]	-51.518	14.141	-3.643	.000	-79.235	-23.802
	[kode_ptn=8]	-50.833	13.869	-3.665	.000	-78.017	-23.650
	[kode_ptn=9]	-41.261	13.804	-2.989	.003	-68.317	-14.205
	[kode_ptn=10]	-33.949	13.797	-2.461	.014	-60.992	-6.906
	[kode_ptn=11]	0 ^a	.	.	.	.	.
	[kode_gel=1]	-10.741	21.935	-4.90	.624	-53.734	32.251
	[kode_gel=2]	0 ^a	.	.	.	.	.
	[kode_ptn=1] * [kode_gel=1]	11.087	22.140	.501	.617	-32.309	54.483
	[kode_ptn=1] * [kode_gel=2]	0 ^a	.	.	.	.	.
	[kode_ptn=2] * [kode_gel=1]	11.054	22.261	.497	.620	-32.580	54.687
	[kode_ptn=2] * [kode_gel=2]	0 ^a	.	.	.	.	.
	[kode_ptn=3] * [kode_gel=1]	8.714	27.757	.314	.754	-45.692	63.120
	[kode_ptn=3] * [kode_gel=2]	0 ^a	.	.	.	.	.
	[kode_ptn=4] * [kode_gel=1]	-8.191	33.268	-2.246	.806	-73.398	57.017
	[kode_ptn=4] * [kode_gel=2]	0 ^a	.	.	.	.	.
	[kode_ptn=5] * [kode_gel=1]	10.139	22.111	.459	.647	-33.198	53.477
	[kode_ptn=5] * [kode_gel=2]	0 ^a	.	.	.	.	.
	[kode_ptn=6] * [kode_gel=1]	7.475	22.004	.340	.734	-35.654	50.604
	[kode_ptn=6] * [kode_gel=2]	0 ^a	.	.	.	.	.
	[kode_ptn=7] * [kode_gel=1]	6.897	22.457	.307	.759	-37.119	50.913
	[kode_ptn=7] * [kode_gel=2]	0 ^a	.	.	.	.	.
	[kode_ptn=8] * [kode_gel=1]	7.053	22.163	.318	.750	-36.387	50.494
	[kode_ptn=8] * [kode_gel=2]	0 ^a	.	.	.	.	.
	[kode_ptn=9] * [kode_gel=1]	4.591	22.100	.208	.835	-38.725	47.907
	[kode_ptn=9] * [kode_gel=2]	0 ^a	.	.	.	.	.
	[kode_ptn=10] * [kode_gel=1]	2.750	22.113	.124	.901	-40.592	46.092
	[kode_ptn=10] * [kode_gel=2]	0 ^a	.	.	.	.	.
	[kode_ptn=11] * [kode_gel=1]	0 ^a	.	.	.	.	.
	[kode_ptn=11] * [kode_gel=2]	0 ^a	.	.	.	.	.
tps_kmbdm	Intercept	578.026	16.498	35.037	.000	545.690	610.363
	[kode_ptn=1]	-67.695	16.730	-4.046	.000	-100.486	-34.904
	[kode_ptn=2]	-68.345	16.868	-4.052	.000	-101.406	-35.284
	[kode_ptn=3]	-78.282	22.186	-3.528	.000	-121.768	-34.796
	[kode_ptn=4]	-71.678	22.294	-3.215	.001	-115.375	-27.982

	[kode_ptn=5]	-66.309	16.670	-3.978	.000	-98.984	-33.635
	[kode_ptn=6]	-64.116	16.575	-3.868	.000	-96.603	-31.629
	[kode_ptn=7]	-48.898	17.094	-2.860	.004	-82.404	-15.393
	[kode_ptn=8]	-49.457	16.766	-2.950	.003	-82.319	-16.595
	[kode_ptn=9]	-35.434	16.687	-2.123	.034	-68.141	-2.727
	[kode_ptn=10]	-9.830	16.679	-.589	.556	-42.522	22.862
	[kode_ptn=11]	0 ^a	.	.	.	.	.
	[kode_gel=1]	-13.318	26.516	-.502	.615	-65.291	38.655
	[kode_gel=2]	0 ^a	.	.	.	.	.
	[kode_ptn=1] * [kode_gel=1]	11.923	26.765	.445	.656	-40.537	64.384
	[kode_ptn=1] * [kode_gel=2]	0 ^a	.	.	.	.	.
	[kode_ptn=2] * [kode_gel=1]	10.250	26.912	.381	.703	-42.498	62.998
	[kode_ptn=2] * [kode_gel=2]	0 ^a	.	.	.	.	.
	[kode_ptn=3] * [kode_gel=1]	22.495	33.556	.670	.503	-43.275	88.265
	[kode_ptn=3] * [kode_gel=2]	0 ^a	.	.	.	.	.
	[kode_ptn=4] * [kode_gel=1]	18.103	40.218	.450	.653	-60.725	96.932
	[kode_ptn=4] * [kode_gel=2]	0 ^a	.	.	.	.	.
	[kode_ptn=5] * [kode_gel=1]	11.511	26.729	.431	.667	-40.879	63.901
	[kode_ptn=5] * [kode_gel=2]	0 ^a	.	.	.	.	.
	[kode_ptn=6] * [kode_gel=1]	14.404	26.601	.541	.588	-37.734	66.542
	[kode_ptn=6] * [kode_gel=2]	0 ^a	.	.	.	.	.
	[kode_ptn=7] * [kode_gel=1]	5.583	27.148	.206	.837	-47.627	58.794
	[kode_ptn=7] * [kode_gel=2]	0 ^a	.	.	.	.	.
	[kode_ptn=8] * [kode_gel=1]	11.630	26.793	.434	.664	-40.884	64.145
	[kode_ptn=8] * [kode_gel=2]	0 ^a	.	.	.	.	.
	[kode_ptn=9] * [kode_gel=1]	6.392	26.716	.239	.811	-45.972	58.756
	[kode_ptn=9] * [kode_gel=2]	0 ^a	.	.	.	.	.
	[kode_ptn=10] * [kode_gel=1]	-.096	26.732	-.004	.997	-52.491	52.299
	[kode_ptn=10] * [kode_gel=2]	0 ^a	.	.	.	.	.
	[kode_ptn=11] * [kode_gel=1]	0 ^a	.	.	.	.	.
	[kode_ptn=11] * [kode_gel=2]	0 ^a	.	.	.	.	.
sos_mat	Intercept	865.105	17.240	50.181	.000	831.314	898.896
	[kode_ptn=1]	-358.940	17.482	-20.532	.000	-393.207	-324.674
	[kode_ptn=2]	-365.019	17.626	-20.709	.000	-399.568	-330.471
	[kode_ptn=3]	-350.637	23.184	-15.124	.000	-396.079	-305.195
	[kode_ptn=4]	-357.279	23.297	-15.336	.000	-402.942	-311.617
	[kode_ptn=5]	-357.042	17.420	-20.496	.000	-391.186	-322.897
	[kode_ptn=6]	-351.825	17.320	-20.313	.000	-385.774	-317.877
	[kode_ptn=7]	-360.543	17.863	-20.183	.000	-395.556	-325.530
	[kode_ptn=8]	-344.927	17.520	-19.687	.000	-379.267	-310.586
	[kode_ptn=9]	-333.382	17.438	-19.119	.000	-367.561	-299.204
	[kode_ptn=10]	-286.723	17.429	-16.450	.000	-320.885	-252.560
	[kode_ptn=11]	0 ^a	.	.	.	.	.
	[kode_gel=1]	6.270	27.709	.226	.821	-48.041	60.581
	[kode_gel=2]	0 ^a	.	.	.	.	.
	[kode_ptn=1] * [kode_gel=1]	-8.567	27.969	-.306	.759	-63.387	46.253
	[kode_ptn=1] * [kode_gel=2]	0 ^a	.	.	.	.	.
	[kode_ptn=2] * [kode_gel=1]	-2.880	28.122	-.102	.918	-58.000	52.241
	[kode_ptn=2] * [kode_gel=2]	0 ^a	.	.	.	.	.
	[kode_ptn=3] * [kode_gel=1]	-28.875	35.065	-.823	.410	-97.604	39.854
	[kode_ptn=3] * [kode_gel=2]	0 ^a	.	.	.	.	.
	[kode_ptn=4] * [kode_gel=1]	-41.896	42.027	-.997	.319	-124.270	40.479
	[kode_ptn=4] * [kode_gel=2]	0 ^a	.	.	.	.	.
	[kode_ptn=5] * [kode_gel=1]	-8.046	27.931	-.288	.773	-62.793	46.700
	[kode_ptn=5] * [kode_gel=2]	0 ^a	.	.	.	.	.
	[kode_ptn=6] * [kode_gel=1]	-8.299	27.797	-.299	.765	-62.782	46.185
	[kode_ptn=6] * [kode_gel=2]	0 ^a	.	.	.	.	.

	[kode_ptn=7] * [kode_gel=1]	1.155	28.369	.041	.968	-54.449	56.759
	[kode_ptn=7] * [kode_gel=2]	0 ^a	.	.	.	.	.
	[kode_ptn=8] * [kode_gel=1]	-8.936	27.998	-3.19	.750	-63.813	45.941
	[kode_ptn=8] * [kode_gel=2]	0 ^a	.	.	.	.	.
	[kode_ptn=9] * [kode_gel=1]	-10.072	27.918	-3.61	.718	-64.792	44.647
	[kode_ptn=9] * [kode_gel=2]	0 ^a	.	.	.	.	.
	[kode_ptn=10] * [kode_gel=1]	-22.821	27.934	-8.17	.414	-77.573	31.930
	[kode_ptn=10] * [kode_gel=2]	0 ^a	.	.	.	.	.
	[kode_ptn=11] * [kode_gel=1]	0 ^a	.	.	.	.	.
	[kode_ptn=11] * [kode_gel=2]	0 ^a	.	.	.	.	.
sos_eko	Intercept	608.868	15.555	39.142	.000	578.379	639.358
	[kode_ptn=1]	-102.927	15.774	-6.525	.000	-133.845	-72.008
	[kode_ptn=2]	-100.836	15.904	-6.340	.000	-132.009	-69.663
	[kode_ptn=3]	-94.592	20.919	-4.522	.000	-135.594	-53.590
	[kode_ptn=4]	-102.716	21.020	-4.886	.000	-143.917	-61.515
	[kode_ptn=5]	-99.286	15.718	-6.317	.000	-130.095	-68.478
	[kode_ptn=6]	-94.558	15.628	-6.051	.000	-125.190	-63.926
	[kode_ptn=7]	-91.578	16.118	-5.682	.000	-123.170	-59.986
	[kode_ptn=8]	-83.503	15.808	-5.282	.000	-114.488	-52.518
	[kode_ptn=9]	-73.429	15.734	-4.667	.000	-104.268	-42.590
	[kode_ptn=10]	-41.112	15.726	-2.614	.009	-71.937	-10.288
	[kode_ptn=11]	0 ^a	.	.	.	.	.
	[kode_gel=1]	17.882	25.002	.715	.474	-31.123	66.886
	[kode_gel=2]	0 ^a	.	.	.	.	.
	[kode_ptn=1] * [kode_gel=1]	-14.228	25.236	-5.64	.573	-63.692	35.236
	[kode_ptn=1] * [kode_gel=2]	0 ^a	.	.	.	.	.
	[kode_ptn=2] * [kode_gel=1]	-19.877	25.374	-7.83	.433	-69.612	29.858
	[kode_ptn=2] * [kode_gel=2]	0 ^a	.	.	.	.	.
	[kode_ptn=3] * [kode_gel=1]	-28.393	31.639	-8.97	.369	-90.407	33.620
	[kode_ptn=3] * [kode_gel=2]	0 ^a	.	.	.	.	.
	[kode_ptn=4] * [kode_gel=1]	-9.234	37.921	-2.44	.808	-83.560	65.092
	[kode_ptn=4] * [kode_gel=2]	0 ^a	.	.	.	.	.
	[kode_ptn=5] * [kode_gel=1]	-17.719	25.202	-7.03	.482	-67.116	31.679
	[kode_ptn=5] * [kode_gel=2]	0 ^a	.	.	.	.	.
	[kode_ptn=6] * [kode_gel=1]	-18.969	25.081	-7.56	.449	-68.129	30.191
	[kode_ptn=6] * [kode_gel=2]	0 ^a	.	.	.	.	.
	[kode_ptn=7] * [kode_gel=1]	-25.752	25.597	-1.006	.314	-75.924	24.419
	[kode_ptn=7] * [kode_gel=2]	0 ^a	.	.	.	.	.
	[kode_ptn=8] * [kode_gel=1]	-17.590	25.262	-6.96	.486	-67.105	31.925
	[kode_ptn=8] * [kode_gel=2]	0 ^a	.	.	.	.	.
	[kode_ptn=9] * [kode_gel=1]	-20.459	25.190	-8.12	.417	-69.833	28.914
	[kode_ptn=9] * [kode_gel=2]	0 ^a	.	.	.	.	.
	[kode_ptn=10] * [kode_gel=1]	-33.318	25.205	-1.322	.186	-82.720	16.085
	[kode_ptn=10] * [kode_gel=2]	0 ^a	.	.	.	.	.
	[kode_ptn=11] * [kode_gel=1]	0 ^a	.	.	.	.	.
	[kode_ptn=11] * [kode_gel=2]	0 ^a	.	.	.	.	.
sos_sej	Intercept	605.105	15.673	38.607	.000	574.385	635.826
	[kode_ptn=1]	-98.500	15.894	-6.197	.000	-129.653	-67.348
	[kode_ptn=2]	-92.931	16.025	-5.799	.000	-124.340	-61.522
	[kode_ptn=3]	-99.148	21.078	-4.704	.000	-140.461	-57.835
	[kode_ptn=4]	-87.431	21.180	-4.128	.000	-128.945	-45.918
	[kode_ptn=5]	-97.576	15.838	-6.161	.000	-128.618	-66.533
	[kode_ptn=6]	-98.806	15.747	-6.275	.000	-129.670	-67.942
	[kode_ptn=7]	-97.152	16.240	-5.982	.000	-128.983	-65.320
	[kode_ptn=8]	-91.027	15.928	-5.715	.000	-122.247	-59.807
	[kode_ptn=9]	-71.411	15.853	-4.505	.000	-102.484	-40.338
	[kode_ptn=10]	-45.319	15.846	-2.860	.004	-76.377	-14.260

	[kode_ptn=11]	0 ^a					
	[kode_gel=1]	3.311	25.192	.131	.895	-46.065	52.688
	[kode_gel=2]	0 ^a					
	[kode_ptn=1] * [kode_gel=1]	-0.017	25.428	-0.001	.999	-49.856	49.823
	[kode_ptn=1] * [kode_gel=2]	0 ^a					
	[kode_ptn=2] * [kode_gel=1]	-6.412	25.567	-2.251	.802	-56.524	43.700
	[kode_ptn=2] * [kode_gel=2]	0 ^a					
	[kode_ptn=3] * [kode_gel=1]	-9.092	31.879	-2.285	.775	-71.576	53.392
	[kode_ptn=3] * [kode_gel=2]	0 ^a					
	[kode_ptn=4] * [kode_gel=1]	-27.385	38.208	-7.177	.474	-102.275	47.505
	[kode_ptn=4] * [kode_gel=2]	0 ^a					
	[kode_ptn=5] * [kode_gel=1]	-7.58	25.394	-0.030	.976	-50.530	49.015
	[kode_ptn=5] * [kode_gel=2]	0 ^a					
	[kode_ptn=6] * [kode_gel=1]	-2.776	25.272	-1.110	.913	-52.310	46.757
	[kode_ptn=6] * [kode_gel=2]	0 ^a					
	[kode_ptn=7] * [kode_gel=1]	-4.661	25.791	-1.181	.857	-55.212	45.891
	[kode_ptn=7] * [kode_gel=2]	0 ^a					
	[kode_ptn=8] * [kode_gel=1]	-3.384	25.454	-1.133	.894	-53.274	46.507
	[kode_ptn=8] * [kode_gel=2]	0 ^a					
	[kode_ptn=9] * [kode_gel=1]	-12.863	25.381	-5.077	.612	-62.611	36.885
	[kode_ptn=9] * [kode_gel=2]	0 ^a					
	[kode_ptn=10] * [kode_gel=1]	-14.325	25.396	-5.644	.573	-64.102	35.452
	[kode_ptn=10] * [kode_gel=2]	0 ^a					
	[kode_ptn=11] * [kode_gel=1]	0 ^a					
	[kode_ptn=11] * [kode_gel=2]	0 ^a					
sos_geo	Intercept	576.868	16.199	35.611	.000	545.118	608.619
	[kode_ptn=1]	-68.471	16.427	-4.168	.000	-100.669	-36.273
	[kode_ptn=2]	-66.331	16.562	-4.005	.000	-98.794	-33.869
	[kode_ptn=3]	-52.805	21.785	-2.424	.015	-95.503	-10.106
	[kode_ptn=4]	-77.868	21.890	-3.557	.000	-120.774	-34.963
	[kode_ptn=5]	-61.311	16.369	-3.746	.000	-93.394	-29.228
	[kode_ptn=6]	-66.348	16.275	-4.077	.000	-98.247	-34.449
	[kode_ptn=7]	-59.568	16.785	-3.549	.000	-92.467	-26.669
	[kode_ptn=8]	-56.634	16.462	-3.440	.001	-88.901	-24.367
	[kode_ptn=9]	-43.512	16.385	-2.656	.008	-75.627	-11.397
	[kode_ptn=10]	-26.888	16.377	-1.642	.101	-58.988	5.212
	[kode_ptn=11]	0 ^a					
	[kode_gel=1]	14.257	26.036	.548	.584	-36.776	65.289
	[kode_gel=2]	0 ^a					
	[kode_ptn=1] * [kode_gel=1]	-10.524	26.280	-4.000	.689	-62.035	40.987
	[kode_ptn=1] * [kode_gel=2]	0 ^a					
	[kode_ptn=2] * [kode_gel=1]	-16.433	26.424	-6.222	.534	-68.226	35.360
	[kode_ptn=2] * [kode_gel=2]	0 ^a					
	[kode_ptn=3] * [kode_gel=1]	-40.948	32.948	-1.243	.214	-105.527	23.632
	[kode_ptn=3] * [kode_gel=2]	0 ^a					
	[kode_ptn=4] * [kode_gel=1]	2.610	39.490	.066	.947	-74.791	80.012
	[kode_ptn=4] * [kode_gel=2]	0 ^a					
	[kode_ptn=5] * [kode_gel=1]	-21.624	26.245	-8.244	.410	-73.065	29.818
	[kode_ptn=5] * [kode_gel=2]	0 ^a					
	[kode_ptn=6] * [kode_gel=1]	-12.244	26.119	-4.469	.639	-63.438	38.951
	[kode_ptn=6] * [kode_gel=2]	0 ^a					
	[kode_ptn=7] * [kode_gel=1]	-16.438	26.656	-6.177	.537	-68.685	35.809
	[kode_ptn=7] * [kode_gel=2]	0 ^a					
	[kode_ptn=8] * [kode_gel=1]	-13.523	26.308	-5.144	.607	-65.087	38.041
	[kode_ptn=8] * [kode_gel=2]	0 ^a					
	[kode_ptn=9] * [kode_gel=1]	-17.930	26.232	-6.844	.494	-69.346	33.486
	[kode_ptn=9] * [kode_gel=2]	0 ^a					

	[kode_ptn=10] * [kode_gel=1]	-24.526	26.248	-934	.350	-75.973	26.920
	[kode_ptn=10] * [kode_gel=2]	0 ^a	.	.	.	.	.
	[kode_ptn=11] * [kode_gel=1]	0 ^a	.	.	.	.	.
	[kode_ptn=11] * [kode_gel=2]	0 ^a	.	.	.	.	.
sos_sosio	Intercept	585.079	15.693	37.282	.000	554.319	615.838
	[kode_ptn=1]	-74.717	15.914	-4.695	.000	-105.910	-43.525
	[kode_ptn=2]	-72.580	16.045	-4.523	.000	-104.029	-41.131
	[kode_ptn=3]	-68.483	21.104	-3.245	.001	-109.849	-27.118
	[kode_ptn=4]	-77.340	21.207	-3.647	.000	-118.906	-35.774
	[kode_ptn=5]	-76.119	15.858	-4.800	.000	-107.201	-45.038
	[kode_ptn=6]	-72.670	15.767	-4.609	.000	-103.573	-41.767
	[kode_ptn=7]	-66.300	16.261	-4.077	.000	-98.172	-34.428
	[kode_ptn=8]	-61.498	15.948	-3.856	.000	-92.758	-30.239
	[kode_ptn=9]	-51.160	15.873	-3.223	.001	-82.273	-20.048
	[kode_ptn=10]	-33.350	15.866	-2.102	.036	-64.448	-2.252
	[kode_ptn=11]	0 ^a	.	.	.	.	.
	[kode_gel=1]	-9.746	25.223	-386	.699	-59.185	39.693
	[kode_gel=2]	0 ^a	.	.	.	.	.
	[kode_ptn=1] * [kode_gel=1]	9.341	25.460	.367	.714	-40.562	59.243
	[kode_ptn=1] * [kode_gel=2]	0 ^a	.	.	.	.	.
	[kode_ptn=2] * [kode_gel=1]	6.349	25.599	.248	.804	-43.827	56.524
	[kode_ptn=2] * [kode_gel=2]	0 ^a	.	.	.	.	.
	[kode_ptn=3] * [kode_gel=1]	2.013	31.919	.063	.950	-60.551	64.576
	[kode_ptn=3] * [kode_gel=2]	0 ^a	.	.	.	.	.
	[kode_ptn=4] * [kode_gel=1]	6.140	38.257	.160	.872	-68.845	81.125
	[kode_ptn=4] * [kode_gel=2]	0 ^a	.	.	.	.	.
	[kode_ptn=5] * [kode_gel=1]	7.501	25.426	.295	.768	-42.334	57.336
	[kode_ptn=5] * [kode_gel=2]	0 ^a	.	.	.	.	.
	[kode_ptn=6] * [kode_gel=1]	9.313	25.304	.368	.713	-40.283	58.909
	[kode_ptn=6] * [kode_gel=2]	0 ^a	.	.	.	.	.
	[kode_ptn=7] * [kode_gel=1]	8.678	25.824	.336	.737	-41.938	59.293
	[kode_ptn=7] * [kode_gel=2]	0 ^a	.	.	.	.	.
	[kode_ptn=8] * [kode_gel=1]	10.341	25.486	.406	.685	-39.613	60.295
	[kode_ptn=8] * [kode_gel=2]	0 ^a	.	.	.	.	.
	[kode_ptn=9] * [kode_gel=1]	5.670	25.413	.223	.823	-44.141	55.481
	[kode_ptn=9] * [kode_gel=2]	0 ^a	.	.	.	.	.
	[kode_ptn=10] * [kode_gel=1]	2.741	25.428	.108	.914	-47.099	52.581
	[kode_ptn=10] * [kode_gel=2]	0 ^a	.	.	.	.	.
	[kode_ptn=11] * [kode_gel=1]	0 ^a	.	.	.	.	.
	[kode_ptn=11] * [kode_gel=2]	0 ^a	.	.	.	.	.

a. This parameter is set to zero because it is redundant.

Lampiran 10 Output MANOVA Two-Way

a. Saintek

Multivariate Tests^a

Effect		Value	F	Hypothesis df	Error df	Sig.	Noncent. Parameter	Observed Power ^b
Intercept	Pillai's Trace	.985	311498.282 ^a	8.000	38539.000	.000	2491986.254	1.000
	Wilks' Lambda	.015	311498.282 ^a	8.000	38539.000	.000	2491986.254	1.000

	Hotelling's Trace	64.661	311498.282 ^b	8.000	38539.000	.000	2491986.254	1.000
	Roy's Largest Root	64.661	311498.282 ^b	8.000	38539.000	.000	2491986.254	1.000
X1	Pillai's Trace	.104	50.833	80.000	308368.000	.000	4066.629	1.000
	Wilks' Lambda	.896	53.161	80.000	244439.468	.000	3365.646	1.000
	Hotelling's Trace	.115	55.422	80.000	308298.000	.000	4433.726	1.000
	Roy's Largest Root	.110	424.146 ^c	10.000	38546.000	.000	4241.463	1.000
X2	Pillai's Trace	.001	4.013 ^b	8.000	38539.000	.000	32.102	.993
	Wilks' Lambda	.999	4.013 ^b	8.000	38539.000	.000	32.102	.993
	Hotelling's Trace	.001	4.013 ^b	8.000	38539.000	.000	32.102	.993
	Roy's Largest Root	.001	4.013 ^b	8.000	38539.000	.000	32.102	.993
X1 * X2	Pillai's Trace	.005	2.409	80.000	308368.000	.000	192.701	1.000
	Wilks' Lambda	.995	2.412	80.000	244439.468	.000	152.936	1.000
	Hotelling's Trace	.005	2.414	80.000	308298.000	.000	193.122	1.000
	Roy's Largest Root	.004	14.743 ^c	10.000	38546.000	.000	147.430	1.000

Tests of Between-Subjects Effects

Source	Dependent Variable	Type III Sum of Squares	df	Mean Square	F	Sig.	Noncent. Parameter	Observed Power ^f
X1	Y1	9795924.555	10	979592.455	98.360	.000	983.603	1.000
	Y2	20016679.523	10	2001667.952	166.358	.000	1663.575	1.000
	Y3	4870067.398	10	487006.740	65.335	.000	653.348	1.000
	Y4	14898675.282	10	1489867.528	149.956	.000	1499.559	1.000
	Y5	15281708.260	10	1528170.826	174.310	.000	1743.104	1.000
	Y6	16900835.345	10	1690083.535	180.875	.000	1808.747	1.000
	Y7	14846670.901	10	1484667.090	131.570	.000	1315.697	1.000
	Y8	9412138.109	10	941213.811	111.611	.000	1116.108	1.000
X2	Y1	62329.689	1	62329.689	6.258	.012	6.258	.706
	Y2	35186.796	1	35186.796	2.924	.087	2.924	.401
	Y3	1368.611	1	1368.611	.184	.668	.184	.071
	Y4	47949.561	1	47949.561	4.826	.028	4.826	.594
	Y5	196959.975	1	196959.975	22.466	.000	22.466	.997
	Y6	7876.894	1	7876.894	.843	.359	.843	.151
	Y7	92094.484	1	92094.484	8.161	.004	8.161	.815
	Y8	54383.638	1	54383.638	6.449	.011	6.449	.719
X1 * X2	Y1	363387.469	10	36338.747	3.649	.000	36.488	.996
	Y2	391663.077	10	39166.308	3.255	.000	32.551	.990
	Y3	93260.350	10	9326.035	1.251	.252	12.511	.662
	Y4	386409.964	10	38640.996	3.889	.000	38.892	.998
	Y5	740202.327	10	74020.233	8.443	.000	84.431	1.000
	Y6	337103.939	10	33710.394	3.608	.000	36.077	.996
	Y7	567475.130	10	56747.513	5.029	.000	50.289	1.000
	Y8	301460.890	10	30146.089	3.575	.000	35.748	.995

b. Soshum

Multivariate Tests^a

Effect		Value	F	Hypothesis df	Error df	Sig.	Noncent. Parameter	Observed Power ^f
Intercept	Pillai's Trace	.886	26169.344 ^a	9.000	30360.000	.000	235524.099	1.000
	Wilks' Lambda	.114	26169.344 ^b	9.000	30360.000	.000	235524.099	1.000
	Hotelling's Trace	7.758	26169.344 ^b	9.000	30360.000	.000	235524.099	1.000
	Roy's Largest Root	7.758	26169.344 ^b	9.000	30360.000	.000	235524.099	1.000
X1	Pillai's Trace	.109	37.118	90.000	273312.000	.000	3340.596	1.000
	Wilks' Lambda	.892	38.713	90.000	205921.797	.000	2620.190	1.000
	Hotelling's Trace	.119	40.233	90.000	273224.000	.000	3620.998	1.000
	Roy's Largest Root	.108	328.182 ^c	10.000	30368.000	.000	3281.816	1.000

X2	Pillai's Trace	.000	1.118 ^b	9.000	30360.000	.346	10.062	.567
	Wilks' Lambda	1.000	1.118 ^b	9.000	30360.000	.346	10.062	.567
	Hotelling's Trace	.000	1.118 ^b	9.000	30360.000	.346	10.062	.567
	Roy's Largest Root	.000	1.118 ^b	9.000	30360.000	.346	10.062	.567
X1 * X2	Pillai's Trace	.003	1.097	90.000	273312.000	.249	98.697	1.000
	Wilks' Lambda	.997	1.097	90.000	205921.797	.249	74.385	.995
	Hotelling's Trace	.003	1.097	90.000	273224.000	.248	98.728	1.000
	Roy's Largest Root	.002	4.971 ^c	10.000	30368.000	.000	49.708	1.000

Tests of Between-Subjects Effects

Source	Dependent Variable	Type III Sum of Squares	df	Mean Square	F	Sig.	Noncent. Parameter	Observed Power ^a
X1	Y1	5725705.765	10	572570.577	70.640	.000	706.397	1.000
	Y2	8335591.989	10	833559.199	104.316	.000	1043.164	1.000
	Y3	2595986.732	10	259598.673	36.681	.000	366.809	1.000
	Y4	8802008.166	10	880200.817	85.104	.000	851.038	1.000
	Y9	19311285.250	10	1931128.525	170.986	.000	1709.860	1.000
	Y10	8740801.309	10	874080.131	95.062	.000	950.616	1.000
	Y11	7780870.555	10	778087.056	83.352	.000	833.521	1.000
	Y12	4419165.567	10	441916.557	44.318	.000	443.176	1.000
	Y13	5271449.830	10	527144.983	56.327	.000	563.274	1.000
	X2	Y1	44266.521	1	44266.521	5.461	.019	5.461	.647
Y2		27442.259	1	27442.259	3.434	.064	3.434	.458
Y3		15322.183	1	15322.183	2.165	.141	2.165	.313
Y4		5630.998	1	5630.998	.544	.461	.544	.114
Y9		23631.828	1	23631.828	2.092	.148	2.092	.304
Y10		374.168	1	374.168	.041	.840	.041	.055
Y11		9797.855	1	9797.855	1.050	.306	1.050	.176
Y12		1042.241	1	1042.241	.105	.746	.105	.062
Y13		7322.541	1	7322.541	.782	.376	.782	.143
X1 * X2		Y1	177422.373	10	17742.237	2.189	.016	21.889	.921
	Y2	154238.326	10	15423.833	1.930	.037	19.302	.877
	Y3	54978.671	10	5497.867	.777	.651	7.768	.422
	Y4	168344.062	10	16834.406	1.628	.092	16.277	.801
	Y9	244862.753	10	24486.275	2.168	.017	21.681	.918
	Y10	215182.533	10	21518.253	2.340	.009	23.402	.940
	Y11	194149.140	10	19414.914	2.080	.023	20.798	.904
	Y12	181500.285	10	18150.029	1.820	.052	18.202	.853
	Y13	42117.053	10	4211.705	.450	.922	4.500	.241

Lampiran 11 Output Post Hoc Test MANOVA Two-Way Jenis

Ujian Saintek

a. Faktor PTN-BH Tujuan

Pairwise Comparisons

Dependent Variable	(I) X1	(J) X1	Mean Difference (I-J)	Std. Error	Sig. ^b	95% Confidence Interval for Difference ^a	
						Lower Bound	Upper Bound
Y1	1	2	-.602	2.812	1.000	-9.930	8.726
		3	1.076	3.627	1.000	-10.955	13.107
	4	5	.063	2.848	1.000	-9.386	9.511
		6	-3.282	2.608	1.000	-11.934	5.371
	7	6	-4.353	2.840	1.000	-13.774	5.069
		7	-7.611	3.436	1.000	-19.008	3.787

	8	-12.152	2.666	.000	-20.995	-3.309
	9	-16.995	2.760	.000	-26.152	-7.839
	10	-31.802	2.416	.000	-39.819	-23.786
	11	-58.890	3.079	.000	-69.105	-48.675
2	1	.602	2.812	1.000	-8.726	9.930
	3	1.678	3.405	1.000	-9.619	12.976
	4	.665	2.560	1.000	-7.829	9.159
	5	-2.680	2.291	1.000	-10.279	4.920
	6	-3.751	2.551	1.000	-12.215	4.714
	7	-7.008	3.201	1.000	-17.628	3.612
	8	-11.550	2.356	.000	-19.365	-3.735
	9	-16.393	2.462	.000	-24.562	-8.225
	10	-31.200	2.070	.000	-38.066	-24.334
	11	-58.288	2.815	.000	-67.628	-48.949
3	1	-1.076	3.627	1.000	-13.107	10.955
	2	-1.678	3.405	1.000	-12.976	9.619
	4	-1.014	3.435	1.000	-12.411	10.383
	5	-4.358	3.239	1.000	-15.104	6.389
	6	-5.429	3.429	1.000	-16.804	5.946
	7	-8.687	3.936	1.000	-21.745	4.372
	8	-13.228	3.286	.003	-24.129	-2.328
	9	-18.072	3.363	.000	-29.228	-6.915
	10	-32.878	3.087	.000	-43.120	-22.637
	11	-59.967	3.629	.000	-72.007	-47.927
4	1	-.063	2.848	1.000	-9.511	9.386
	2	-.665	2.560	1.000	-9.159	7.829
	3	1.014	3.435	1.000	-10.383	12.411
	5	-3.344	2.335	1.000	-11.091	4.402
	6	-4.415	2.591	1.000	-13.013	4.182
	7	-7.673	3.233	.970	-18.399	3.053
	8	-12.215	2.399	.000	-20.174	-4.256
	9	-17.058	2.504	.000	-25.364	-8.752
	10	-31.865	2.119	.000	-38.894	-24.836
	11	-58.953	2.851	.000	-68.413	-49.493
5	1	3.282	2.608	1.000	-5.371	11.934
	2	2.680	2.291	1.000	-4.920	10.279
	3	4.358	3.239	1.000	-6.389	15.104
	4	3.344	2.335	1.000	-4.402	11.091
	6	-1.071	2.325	1.000	-8.785	6.643
	7	-4.329	3.024	1.000	-14.361	5.703
	8	-8.870	2.109	.001	-15.866	-1.875
	9	-13.714	2.227	.000	-21.102	-6.326
	10	-28.521	1.783	.000	-34.437	-22.604
	11	-55.609	2.612	.000	-64.274	-46.944
6	1	4.353	2.840	1.000	-5.069	13.774
	2	3.751	2.551	1.000	-4.714	12.215
	3	5.429	3.429	1.000	-5.946	16.804
	4	4.415	2.591	1.000	-4.182	13.013
	5	1.071	2.325	1.000	-6.643	8.785
	7	-3.258	3.226	1.000	-13.960	7.445

	8	-7.799	2.390	.060	-15.727	.128
	9	-12.643	2.495	.000	-20.918	-4.367
	10	-27.449	2.108	.000	-34.443	-20.456
	11	-54.538	2.843	.000	-63.971	-45.104
7	1	7.611	3.436	1.000	-3.787	19.008
	2	7.008	3.201	1.000	-3.612	17.628
	3	8.687	3.936	1.000	-4.372	21.745
	4	7.673	3.233	.970	-3.053	18.399
	5	4.329	3.024	1.000	-5.703	14.361
	6	3.258	3.226	1.000	-7.445	13.960
	8	-4.542	3.074	1.000	-14.738	5.655
	9	-9.385	3.156	.162	-19.855	1.085
	10	-24.192	2.860	.000	-33.681	-14.703
	11	-51.280	3.438	.000	-62.687	-39.873
8	1	12.152	2.666	.000	3.309	20.995
	2	11.550	2.356	.000	3.735	19.365
	3	13.228	3.286	.003	2.328	24.129
	4	12.215	2.399	.000	4.256	20.174
	5	8.870	2.109	.001	1.875	15.866
	6	7.799	2.390	.060	-.128	15.727
	7	4.542	3.074	1.000	-5.655	14.738
	9	-4.843	2.294	1.000	-12.454	2.767
	10	-19.650	1.866	.000	-25.842	-13.458
	11	-46.738	2.669	.000	-55.593	-37.883
9	1	16.995	2.760	.000	7.839	26.152
	2	16.393	2.462	.000	8.225	24.562
	3	18.072	3.363	.000	6.915	29.228
	4	17.058	2.504	.000	8.752	25.364
	5	13.714	2.227	.000	6.326	21.102
	6	12.643	2.495	.000	4.367	20.918
	7	9.385	3.156	.162	-1.085	19.855
	8	4.843	2.294	1.000	-2.767	12.454
	10	-14.807	1.999	.000	-21.439	-8.175
	11	-41.895	2.764	.000	-51.063	-32.726
10	1	31.802	2.416	.000	23.786	39.819
	2	31.200	2.070	.000	24.334	38.066
	3	32.878	3.087	.000	22.637	43.120
	4	31.865	2.119	.000	24.836	38.894
	5	28.521	1.783	.000	22.604	34.437
	6	27.449	2.108	.000	20.456	34.443
	7	24.192	2.860	.000	14.703	33.681
	8	19.650	1.866	.000	13.458	25.842
	9	14.807	1.999	.000	8.175	21.439
	11	-27.088	2.421	.000	-35.118	-19.058
11	1	58.890	3.079	.000	48.675	69.105
	2	58.288	2.815	.000	48.949	67.628
	3	59.967	3.629	.000	47.927	72.007
	4	58.953	2.851	.000	49.493	68.413
	5	55.609	2.612	.000	46.944	64.274
	6	54.538	2.843	.000	45.104	63.971

		7	51.280	3.438	.000	39.873	62.687
		8	46.738	2.669	.000	37.883	55.593
		9	41.895	2.764	.000	32.726	51.063
		10	27.088	2.421	.000	19.058	35.118
Y2	1	2	1.906	3.090	1.000	-8.347	12.159
		3	2.528	3.986	1.000	-10.696	15.752
		4	1.655	3.130	1.000	-8.731	12.040
		5	-2.613	2.867	1.000	-12.124	6.897
		6	-6.842	3.122	1.000	-17.198	3.514
		7	-10.692	3.776	.255	-23.220	1.835
		8	-16.837	2.930	.000	-26.557	-7.118
		9	-23.176	3.034	.000	-33.240	-13.111
		10	-43.258	2.656	.000	-52.069	-34.447
		11	-84.270	3.384	.000	-95.498	-73.042
	2	1	-1.906	3.090	1.000	-12.159	8.347
		3	.623	3.743	1.000	-11.795	13.040
		4	-.251	2.814	1.000	-9.588	9.085
		5	-4.519	2.518	1.000	-12.872	3.834
		6	-8.748	2.805	.100	-18.052	.556
		7	-12.598	3.519	.019	-24.271	-.925
		8	-18.743	2.589	.000	-27.334	-10.153
		9	-25.082	2.706	.000	-34.060	-16.103
		10	-45.164	2.275	.000	-52.711	-37.617
		11	-86.176	3.094	.000	-96.441	-75.910
	3	1	-2.528	3.986	1.000	-15.752	10.696
		2	-.623	3.743	1.000	-13.040	11.795
		4	-.874	3.776	1.000	-13.401	11.653
		5	-5.141	3.561	1.000	-16.954	6.671
		6	-9.371	3.769	.710	-21.874	3.132
		7	-13.221	4.327	.124	-27.574	1.133
		8	-19.366	3.612	.000	-31.347	-7.385
		9	-25.704	3.696	.000	-37.967	-13.441
		10	-45.786	3.393	.000	-57.043	-34.529
		11	-86.798	3.989	.000	-100.032	-73.564
	4	1	-1.655	3.130	1.000	-12.040	8.731
		2	.251	2.814	1.000	-9.085	9.588
		3	.874	3.776	1.000	-11.653	13.401
		5	-4.268	2.567	1.000	-12.783	4.247
		6	-8.497	2.848	.157	-17.947	.953
		7	-12.347	3.554	.028	-24.137	-.557
		8	-18.492	2.637	.000	-27.240	-9.744
		9	-24.830	2.752	.000	-33.960	-15.701
		10	-44.913	2.329	.000	-52.639	-37.186
		11	-85.925	3.134	.000	-96.322	-75.527
	5	1	2.613	2.867	1.000	-6.897	12.124
		2	4.519	2.518	1.000	-3.834	12.872
		3	5.141	3.561	1.000	-6.671	16.954
		4	4.268	2.567	1.000	-4.247	12.783
		6	-4.229	2.556	1.000	-12.708	4.250
		7	-8.079	3.324	.829	-19.106	2.948
		8	-14.224	2.318	.000	-21.914	-6.535
		9	-20.563	2.448	.000	-28.684	-12.442
		10	-40.645	1.960	.000	-47.148	-34.142
		11	-81.657	2.871	.000	-91.181	-72.133
	6	1	6.842	3.122	1.000	-3.514	17.198
		2	8.748	2.805	.100	-.556	18.052

	3	9.371	3.769	.710	-3.132	21.874
	4	8.497	2.848	.157	-.953	17.947
	5	4.229	2.556	1.000	-4.250	12.708
	7	-3.850	3.546	1.000	-15.614	7.914
	8	-9.995	2.626	.008	-18.708	-1.282
	9	-16.333	2.742	.000	-25.430	-7.237
	10	-36.416	2.317	.000	-44.103	-28.729
	11	-77.428	3.125	.000	-87.796	-67.059
7	1	10.692	3.776	.255	-1.835	23.220
	2	12.598	3.519	.019	.925	24.271
	3	13.221	4.327	.124	-1.133	27.574
	4	12.347	3.554	.028	.557	24.137
	5	8.079	3.324	.829	-2.948	19.106
	6	3.850	3.546	1.000	-7.914	15.614
	8	-6.145	3.378	1.000	-17.353	5.063
	9	-12.484	3.469	.018	-23.992	-.975
	10	-32.566	3.144	.000	-42.996	-22.136
	11	-73.578	3.779	.000	-86.116	-61.040
8	1	16.837	2.930	.000	7.118	26.557
	2	18.743	2.589	.000	10.153	27.334
	3	19.366	3.612	.000	7.385	31.347
	4	18.492	2.637	.000	9.744	27.240
	5	14.224	2.318	.000	6.535	21.914
	6	9.995	2.626	.008	1.282	18.708
	7	6.145	3.378	1.000	-5.063	17.353
	9	-6.338	2.521	.657	-14.703	2.027
	10	-26.421	2.051	.000	-33.226	-19.615
	11	-67.433	2.934	.000	-77.166	-57.699
9	1	23.176	3.034	.000	13.111	33.240
	2	25.082	2.706	.000	16.103	34.060
	3	25.704	3.696	.000	13.441	37.967
	4	24.830	2.752	.000	15.701	33.960
	5	20.563	2.448	.000	12.442	28.684
	6	16.333	2.742	.000	7.237	25.430
	7	12.484	3.469	.018	.975	23.992
	8	6.338	2.521	.657	-2.027	14.703
	10	-20.082	2.197	.000	-27.372	-12.792
	11	-61.094	3.038	.000	-71.172	-51.017
10	1	43.258	2.656	.000	34.447	52.069
	2	45.164	2.275	.000	37.617	52.711
	3	45.786	3.393	.000	34.529	57.043
	4	44.913	2.329	.000	37.186	52.639
	5	40.645	1.960	.000	34.142	47.148
	6	36.416	2.317	.000	28.729	44.103
	7	32.566	3.144	.000	22.136	42.996
	8	26.421	2.051	.000	19.615	33.226
	9	20.082	2.197	.000	12.792	27.372
	11	-41.012	2.661	.000	-49.838	-32.186
11	1	84.270	3.384	.000	73.042	95.498
	2	86.176	3.094	.000	75.910	96.441
	3	86.798	3.989	.000	73.564	100.032
	4	85.925	3.134	.000	75.527	96.322
	5	81.657	2.871	.000	72.133	91.181
	6	77.428	3.125	.000	67.059	87.796
	7	73.578	3.779	.000	61.040	86.116
	8	67.433	2.934	.000	57.699	77.166
	9	61.094	3.038	.000	51.017	71.172

	10	41.012	2.661	.000	32.186	49.838
Y3	1	.436	2.432	1.000	-7.634	8.505
	3	3.038	3.137	1.000	-7.370	13.447
	4	1.519	2.464	1.000	-6.655	9.692
	5	-1.546	2.256	1.000	-9.031	5.940
	6	-1.890	2.457	1.000	-10.041	6.261
	7	-6.096	2.972	1.000	-15.956	3.764
	8	-9.420	2.306	.002	-17.071	-1.770
	9	-12.341	2.388	.000	-20.262	-4.419
	10	-23.979	2.091	.000	-30.914	-17.043
	11	-35.774	2.664	.000	-44.612	-26.937
	2	1	-436	2.432	1.000	-8.505	7.634
	3	2.603	2.946	1.000	-7.171	12.376
	4	1.083	2.215	1.000	-6.266	8.432
	5	-1.981	1.982	1.000	-8.556	4.593
	6	-2.326	2.207	1.000	-9.649	4.997
	7	-6.531	2.769	1.000	-15.719	2.656
	8	-9.856	2.038	.000	-16.617	-3.094
	9	-12.776	2.130	.000	-19.843	-5.709
	10	-24.414	1.791	.000	-30.354	-18.474
	11	-36.210	2.435	.000	-44.290	-28.130
3	1	-3.038	3.137	1.000	-13.447	7.370
	2	-2.603	2.946	1.000	-12.376	7.171
	4	-1.520	2.972	1.000	-11.379	8.340
	5	-4.584	2.802	1.000	-13.881	4.713
	6	-4.928	2.966	1.000	-14.769	4.913
	7	-9.134	3.405	.402	-20.431	2.163
	8	-12.458	2.843	.001	-21.889	-3.028
	9	-15.379	2.909	.000	-25.030	-5.727
	10	-27.017	2.671	.000	-35.877	-18.157
	11	-38.813	3.140	.000	-49.229	-28.396
4	1	-1.519	2.464	1.000	-9.692	6.655
	2	-1.083	2.215	1.000	-8.432	6.266
	3	1.520	2.972	1.000	-8.340	11.379
	5	-3.064	2.020	1.000	-9.766	3.638
	6	-3.409	2.242	1.000	-10.846	4.029
	7	-7.614	2.797	.357	-16.894	1.665
	8	-10.939	2.075	.000	-17.824	-4.053
	9	-13.859	2.166	.000	-21.045	-6.673
	10	-25.497	1.833	.000	-31.578	-19.416
	11	-37.293	2.467	.000	-45.477	-29.109
5	1	1.546	2.256	1.000	-5.940	9.031
	2	1.981	1.982	1.000	-4.593	8.556
	3	4.584	2.802	1.000	-4.713	13.881
	4	3.064	2.020	1.000	-3.638	9.766
	6	-.344	2.012	1.000	-7.018	6.330
	7	-4.550	2.616	1.000	-13.229	4.129
	8	-7.874	1.824	.001	-13.927	-1.822
	9	-10.795	1.927	.000	-17.186	-4.403
	10	-22.433	1.543	.000	-27.551	-17.314
	11	-34.229	2.260	.000	-41.725	-26.732
6	1	1.890	2.457	1.000	-6.261	10.041
	2	2.326	2.207	1.000	-4.997	9.649
	3	4.928	2.966	1.000	-4.913	14.769
	4	3.409	2.242	1.000	-4.029	10.846
	5	.344	2.012	1.000	-6.330	7.018
	7	-4.206	2.791	1.000	-13.465	5.053

	8	-7.530	2.067	.015	-14.388	-6.72	
	9	-10.450	2.158	.000	-17.610	-3.291	
	10	-22.089	1.824	.000	-28.139	-16.038	
	11	-33.884	2.460	.000	-42.045	-25.724	
7	1	6.096	2.972	1.000	-3.764	15.956	
	2	6.531	2.769	1.000	-2.656	15.719	
	3	9.134	3.405	.402	-2.163	20.431	
	4	7.614	2.797	.357	-1.665	16.894	
	5	4.550	2.616	1.000	-4.129	13.229	
	6	4.206	2.791	1.000	-5.053	13.465	
	8	-3.324	2.659	1.000	-12.146	5.497	
	9	-6.245	2.730	1.000	-15.303	2.813	
	10	-17.883	2.475	.000	-26.092	-9.673	
	11	-29.679	2.975	.000	-39.547	-19.810	
8	1	9.420	2.306	.002	1.770	17.071	
	2	9.856	2.038	.000	3.094	16.617	
	3	12.458	2.843	.001	3.028	21.889	
	4	10.939	2.075	.000	4.053	17.824	
	5	7.874	1.824	.001	1.822	13.927	
	6	7.530	2.067	.015	.672	14.388	
	7	3.324	2.659	1.000	-5.497	12.146	
	9	-2.920	1.985	1.000	-9.504	3.664	
	10	-14.558	1.615	.000	-19.915	-9.202	
	11	-26.354	2.309	.000	-34.015	-18.693	
9	1	12.341	2.388	.000	4.419	20.262	
	2	12.776	2.130	.000	5.709	19.843	
	3	15.379	2.909	.000	5.727	25.030	
	4	13.859	2.166	.000	6.673	21.045	
	5	10.795	1.927	.000	4.403	17.186	
	6	10.450	2.158	.000	3.291	17.610	
	7	6.245	2.730	1.000	-2.813	15.303	
	8	2.920	1.985	1.000	-3.664	9.504	
	10	-11.638	1.729	.000	-17.376	-5.900	
	11	-23.434	2.391	.000	-31.366	-15.502	
10	1	23.979	2.091	.000	17.043	30.914	
	2	24.414	1.791	.000	18.474	30.354	
	3	27.017	2.671	.000	18.157	35.877	
	4	25.497	1.833	.000	19.416	31.578	
	5	22.433	1.543	.000	17.314	27.551	
	6	22.089	1.824	.000	16.038	28.139	
	7	17.883	2.475	.000	9.673	26.092	
	8	14.558	1.615	.000	9.202	19.915	
	9	11.638	1.729	.000	5.900	17.376	
	11	-11.796	2.094	.000	-18.743	-4.849	
11	1	35.774	2.664	.000	26.937	44.612	
	2	36.210	2.435	.000	28.130	44.290	
	3	38.813	3.140	.000	28.396	49.229	
	4	37.293	2.467	.000	29.109	45.477	
	5	34.229	2.260	.000	26.732	41.725	
	6	33.884	2.460	.000	25.724	42.045	
	7	29.679	2.975	.000	19.810	39.547	
	8	26.354	2.309	.000	18.693	34.015	
	9	23.434	2.391	.000	15.502	31.366	
	10	11.796	2.094	.000	4.849	18.743	
Y4	1	2	1.611	2.808	1.000	-7.706	10.927
		3	.087	3.622	1.000	-11.930	12.104
		4	-.668	2.845	1.000	-10.105	8.769

	5	-4.147	2.605	1.000	-12.789	4.496
	6	-5.692	2.837	1.000	-15.103	3.718
	7	-5.557	3.431	1.000	-16.941	5.827
	8	-13.472	2.662	.000	-22.305	-4.640
	9	-19.407	2.757	.000	-28.553	-10.261
	10	-38.030	2.414	.000	-46.037	-30.023
	11	-73.474	3.075	.000	-83.676	-63.271
2	1	-1.611	2.808	1.000	-10.927	7.706
	3	-1.524	3.401	1.000	-12.807	9.760
	4	-2.279	2.557	1.000	-10.763	6.205
	5	-5.757	2.288	.652	-13.347	1.833
	6	-7.303	2.548	.229	-15.758	1.151
	7	-7.168	3.197	1.000	-17.775	3.440
	8	-15.083	2.353	.000	-22.889	-7.277
	9	-21.018	2.459	.000	-29.177	-12.859
	10	-39.640	2.067	.000	-46.499	-32.782
	11	-75.085	2.812	.000	-84.413	-65.756
3	1	-.087	3.622	1.000	-12.104	11.930
	2	1.524	3.401	1.000	-9.760	12.807
	4	-.755	3.431	1.000	-12.138	10.628
	5	-4.234	3.235	1.000	-14.967	6.500
	6	-5.779	3.425	1.000	-17.141	5.582
	7	-5.644	3.932	1.000	-18.687	7.399
	8	-13.559	3.282	.002	-24.447	-2.672
	9	-19.494	3.359	.000	-30.637	-8.351
	10	-38.117	3.083	.000	-48.346	-27.888
	11	-73.561	3.625	.000	-85.586	-61.535
4	1	.668	2.845	1.000	-8.769	10.105
	2	2.279	2.557	1.000	-6.205	10.763
	3	.755	3.431	1.000	-10.628	12.138
	5	-3.479	2.332	1.000	-11.216	4.259
	6	-5.025	2.588	1.000	-13.611	3.562
	7	-4.889	3.229	1.000	-15.602	5.824
	8	-12.804	2.396	.000	-20.754	-4.855
	9	-18.739	2.501	.000	-27.035	-10.443
	10	-37.362	2.116	.000	-44.383	-30.341
	11	-72.806	2.848	.000	-82.254	-63.358
5	1	4.147	2.605	1.000	-4.496	12.789
	2	5.757	2.288	.652	-1.833	13.347
	3	4.234	3.235	1.000	-6.500	14.967
	4	3.479	2.332	1.000	-4.259	11.216
	6	-1.546	2.323	1.000	-9.251	6.159
	7	-1.410	3.020	1.000	-11.430	8.610
	8	-9.326	2.106	.001	-16.313	-2.338
	9	-15.261	2.224	.000	-22.640	-7.881
	10	-33.883	1.781	.000	-39.793	-27.974
	11	-69.327	2.609	.000	-77.982	-60.673
6	1	5.692	2.837	1.000	-3.718	15.103
	2	7.303	2.548	.229	-1.151	15.758
	3	5.779	3.425	1.000	-5.582	17.141
	4	5.025	2.588	1.000	-3.562	13.611
	5	1.546	2.323	1.000	-6.159	9.251
	7	.136	3.222	1.000	-10.554	10.825
	8	-7.780	2.387	.061	-15.698	.138
	9	-13.715	2.492	.000	-21.980	-5.449
	10	-32.337	2.106	.000	-39.322	-25.352
	11	-67.781	2.840	.000	-77.203	-58.360

7	1	5.557	3.431	1.000	-5.827	16.941
	2	7.168	3.197	1.000	-3.440	17.775
	3	5.644	3.932	1.000	-7.399	18.687
	4	4.889	3.229	1.000	-5.824	15.602
	5	1.410	3.020	1.000	-8.610	11.430
	6	-.136	3.222	1.000	-10.825	10.554
	8	-7.915	3.070	.546	-18.100	2.269
	9	-13.850	3.152	.001	-24.308	-3.393
	10	-32.473	2.857	.000	-41.951	-22.995
	11	-67.917	3.434	.000	-79.310	-56.524
8	1	13.472	2.662	.000	4.640	22.305
	2	15.083	2.353	.000	7.277	22.889
	3	13.559	3.282	.002	2.672	24.447
	4	12.804	2.396	.000	4.855	20.754
	5	9.326	2.106	.001	2.338	16.313
	6	7.780	2.387	.061	-.138	15.698
	7	7.915	3.070	.546	-2.269	18.100
	9	-5.935	2.291	.528	-13.536	1.666
	10	-24.558	1.864	.000	-30.742	-18.373
	11	-60.002	2.666	.000	-68.846	-51.157
9	1	19.407	2.757	.000	10.261	28.553
	2	21.018	2.459	.000	12.859	29.177
	3	19.494	3.359	.000	8.351	30.637
	4	18.739	2.501	.000	10.443	27.035
	5	15.261	2.224	.000	7.881	22.640
	6	13.715	2.492	.000	5.449	21.980
	7	13.850	3.152	.001	3.393	24.308
	8	5.935	2.291	.528	-1.666	13.536
	10	-18.623	1.997	.000	-25.247	-11.999
	11	-54.067	2.760	.000	-63.224	-44.909
10	1	38.030	2.414	.000	30.023	46.037
	2	39.640	2.067	.000	32.782	46.499
	3	38.117	3.083	.000	27.888	48.346
	4	37.362	2.116	.000	30.341	44.383
	5	33.883	1.781	.000	27.974	39.793
	6	32.337	2.106	.000	25.352	39.322
	7	32.473	2.857	.000	22.995	41.951
	8	24.558	1.864	.000	18.373	30.742
	9	18.623	1.997	.000	11.999	25.247
	11	-35.444	2.418	.000	-43.465	-27.424
11	1	73.474	3.075	.000	63.271	83.676
	2	75.085	2.812	.000	65.756	84.413
	3	73.561	3.625	.000	61.535	85.586
	4	72.806	2.848	.000	63.358	82.254
	5	69.327	2.609	.000	60.673	77.982
	6	67.781	2.840	.000	58.360	77.203
	7	67.917	3.434	.000	56.524	79.310
	8	60.002	2.666	.000	51.157	68.846
	9	54.067	2.760	.000	44.909	63.224
	10	35.444	2.418	.000	27.424	43.465
Y5	1	1.710	2.638	1.000	-7.041	10.462
	3	1.748	3.403	1.000	-9.540	13.036
	4	.747	2.672	1.000	-8.117	9.612
	5	-1.275	2.447	1.000	-9.393	6.843
	6	-.809	2.665	1.000	-9.649	8.031
	7	-4.603	3.223	1.000	-15.297	6.090
	8	-7.271	2.501	.201	-15.568	1.026

	9	-12.134	2.590	.000	-20.725	-3.542
	10	-25.443	2.267	.000	-32.965	-17.922
	11	-84.433	2.889	.000	-94.017	-74.849
2	1	-1.710	2.638	1.000	-10.462	7.041
	3	.037	3.195	1.000	-10.562	10.637
	4	-.963	2.402	1.000	-8.933	7.006
	5	-2.985	2.149	1.000	-10.115	4.144
	6	-2.519	2.394	1.000	-10.461	5.422
	7	-6.313	3.003	1.000	-16.278	3.651
	8	-8.981	2.210	.003	-16.314	-1.649
	9	-13.844	2.310	.000	-21.508	-6.180
	10	-27.154	1.942	.000	-33.596	-20.711
	11	-86.143	2.641	.000	-94.906	-77.381
3	1	-1.748	3.403	1.000	-13.036	9.540
	2	-.037	3.195	1.000	-10.637	10.562
	4	-1.000	3.223	1.000	-11.693	9.693
	5	-3.023	3.039	1.000	-13.106	7.060
	6	-2.557	3.217	1.000	-13.229	8.116
	7	-6.351	3.693	1.000	-18.603	5.901
	8	-9.019	3.083	.189	-19.246	1.208
	9	-13.881	3.155	.001	-24.349	-3.414
	10	-27.191	2.896	.000	-36.800	-17.582
	11	-86.181	3.405	.000	-97.477	-74.884
4	1	-.747	2.672	1.000	-9.612	8.117
	2	.963	2.402	1.000	-7.006	8.933
	3	1.000	3.223	1.000	-9.693	11.693
	5	-2.022	2.191	1.000	-9.291	5.246
	6	-1.556	2.431	1.000	-9.623	6.510
	7	-5.350	3.033	1.000	-15.414	4.713
	8	-8.018	2.251	.020	-15.485	-.551
	9	-12.881	2.349	.000	-20.674	-5.088
	10	-26.191	1.988	.000	-32.786	-19.596
	11	-85.180	2.675	.000	-94.056	-76.305
5	1	1.275	2.447	1.000	-6.843	9.393
	2	2.985	2.149	1.000	-4.144	10.115
	3	3.023	3.039	1.000	-7.060	13.106
	4	2.022	2.191	1.000	-5.246	9.291
	6	.466	2.182	1.000	-6.772	7.704
	7	-3.328	2.837	1.000	-12.741	6.084
	8	-5.996	1.978	.134	-12.559	.568
	9	-10.858	2.089	.000	-17.790	-3.927
	10	-24.168	1.673	.000	-29.719	-18.617
	11	-83.158	2.451	.000	-91.288	-75.028
6	1	.809	2.665	1.000	-8.031	9.649
	2	2.519	2.394	1.000	-5.422	10.461
	3	2.557	3.217	1.000	-8.116	13.229
	4	1.556	2.431	1.000	-6.510	9.623
	5	-.466	2.182	1.000	-7.704	6.772
	7	-3.794	3.027	1.000	-13.836	6.247
	8	-6.462	2.242	.217	-13.900	.976
	9	-11.325	2.340	.000	-19.089	-3.560
	10	-24.634	1.978	.000	-31.196	-18.073
	11	-83.624	2.668	.000	-92.474	-74.773
7	1	4.603	3.223	1.000	-6.090	15.297
	2	6.313	3.003	1.000	-3.651	16.278
	3	6.351	3.693	1.000	-5.901	18.603
	4	5.350	3.033	1.000	-4.713	15.414

	5	3.328	2.837	1.000	-6.084	12.741
	6	3.794	3.027	1.000	-6.247	13.836
	8	-2.668	2.884	1.000	-12.235	6.899
	9	-7.530	2.961	.604	-17.354	2.293
	10	-20.840	2.684	.000	-29.743	-11.937
	11	-79.830	3.226	.000	-90.532	-69.127
8	1	7.271	2.501	.201	-1.026	15.568
	2	8.981	2.210	.003	1.649	16.314
	3	9.019	3.083	.189	-1.208	19.246
	4	8.018	2.251	.020	.551	15.485
	5	5.996	1.978	.134	-.568	12.559
	6	6.462	2.242	.217	-.976	13.900
	7	2.668	2.884	1.000	-6.899	12.235
	9	-4.863	2.152	1.000	-12.003	2.278
	10	-18.172	1.751	.000	-23.982	-12.363
	11	-77.162	2.504	.000	-85.470	-68.854
9	1	12.134	2.590	.000	3.542	20.725
	2	13.844	2.310	.000	6.180	21.508
	3	13.881	3.155	.001	3.414	24.349
	4	12.881	2.349	.000	5.088	20.674
	5	10.858	2.089	.000	3.927	17.790
	6	11.325	2.340	.000	3.560	19.089
	7	7.530	2.961	.604	-2.293	17.354
	8	4.863	2.152	1.000	-2.278	12.003
	10	-13.310	1.876	.000	-19.532	-7.087
	11	-72.299	2.593	.000	-80.901	-63.697
10	1	25.443	2.267	.000	17.922	32.965
	2	27.154	1.942	.000	20.711	33.596
	3	27.191	2.896	.000	17.582	36.800
	4	26.191	1.988	.000	19.596	32.786
	5	24.168	1.673	.000	18.617	29.719
	6	24.634	1.978	.000	18.073	31.196
	7	20.840	2.684	.000	11.937	29.743
	8	18.172	1.751	.000	12.363	23.982
	9	13.310	1.876	.000	7.087	19.532
	11	-58.990	2.271	.000	-66.524	-51.455
11	1	84.433	2.889	.000	74.849	94.017
	2	86.143	2.641	.000	77.381	94.906
	3	86.181	3.405	.000	74.884	97.477
	4	85.180	2.675	.000	76.305	94.056
	5	83.158	2.451	.000	75.028	91.288
	6	83.624	2.668	.000	74.773	92.474
	7	79.830	3.226	.000	69.127	90.532
	8	77.162	2.504	.000	68.854	85.470
	9	72.299	2.593	.000	63.697	80.901
	10	58.990	2.271	.000	51.455	66.524
Y6	1	2.197	2.723	1.000	-6.838	11.232
	3	-1.503	3.513	1.000	-13.156	10.151
	4	-.431	2.759	1.000	-9.582	8.721
	5	-4.545	2.526	1.000	-12.926	3.836
	6	-7.514	2.751	.347	-16.640	1.612
	7	-8.666	3.328	.507	-19.706	2.374
	8	-13.274	2.582	.000	-21.839	-4.708
	9	-22.650	2.673	.000	-31.519	-13.781
	10	-36.951	2.341	.000	-44.716	-29.186
	11	-83.539	2.982	.000	-93.433	-73.644
2	1	-2.197	2.723	1.000	-11.232	6.838

	3	-3.700	3.298	1.000	-14.643	7.243
	4	-2.628	2.480	1.000	-10.856	5.600
	5	-6.742	2.219	.131	-14.103	.618
	6	-9.712	2.471	.005	-17.911	-1.513
	7	-10.863	3.101	.025	-21.150	-.577
	8	-15.471	2.282	.000	-23.041	-7.901
	9	-24.847	2.385	.000	-32.759	-16.935
	10	-39.148	2.005	.000	-45.799	-32.498
	11	-85.736	2.727	.000	-94.782	-76.690
3	1	1.503	3.513	1.000	-10.151	13.156
	2	3.700	3.298	1.000	-7.243	14.643
	4	1.072	3.328	1.000	-9.967	12.111
	5	-3.042	3.138	1.000	-13.452	7.367
	6	-6.012	3.321	1.000	-17.030	5.006
	7	-7.163	3.813	1.000	-19.812	5.485
	8	-11.771	3.183	.012	-22.329	-1.213
	9	-21.147	3.257	.000	-31.954	-10.341
	10	-35.448	2.990	.000	-45.368	-25.529
	11	-82.036	3.515	.000	-93.698	-70.374
4	1	.431	2.759	1.000	-8.721	9.582
	2	2.628	2.480	1.000	-5.600	10.856
	3	-1.072	3.328	1.000	-12.111	9.967
	5	-4.114	2.262	1.000	-11.618	3.389
	6	-7.084	2.510	.263	-15.411	1.244
	7	-8.235	3.132	.470	-18.625	2.154
	8	-12.843	2.324	.000	-20.552	-5.134
	9	-22.219	2.425	.000	-30.264	-14.174
	10	-36.520	2.052	.000	-43.329	-29.712
	11	-83.108	2.762	.000	-92.271	-73.945
5	1	4.545	2.526	1.000	-3.836	12.926
	2	6.742	2.219	.131	-.618	14.103
	3	3.042	3.138	1.000	-7.367	13.452
	4	4.114	2.262	1.000	-3.389	11.618
	6	-2.969	2.252	1.000	-10.441	4.503
	7	-4.121	2.929	1.000	-13.838	5.596
	8	-8.728	2.043	.001	-15.505	-1.952
	9	-18.105	2.157	.000	-25.261	-10.948
	10	-32.406	1.727	.000	-38.137	-26.675
	11	-78.994	2.530	.000	-87.387	-70.600
6	1	7.514	2.751	.347	-1.612	16.640
	2	9.712	2.471	.005	1.513	17.911
	3	6.012	3.321	1.000	-5.006	17.030
	4	7.084	2.510	.263	-1.244	15.411
	5	2.969	2.252	1.000	-4.503	10.441
	7	-1.152	3.125	1.000	-11.519	9.215
	8	-5.759	2.315	.706	-13.438	1.919
	9	-15.136	2.416	.000	-23.152	-7.120
	10	-29.437	2.042	.000	-36.211	-22.663
	11	-76.024	2.754	.000	-85.161	-66.887
7	1	8.666	3.328	.507	-2.374	19.706
	2	10.863	3.101	.025	.577	21.150
	3	7.163	3.813	1.000	-5.485	19.812
	4	8.235	3.132	.470	-2.154	18.625
	5	4.121	2.929	1.000	-5.596	13.838
	6	1.152	3.125	1.000	-9.215	11.519
	8	-4.608	2.977	1.000	-14.484	5.269
	9	-13.984	3.057	.000	-24.125	-3.842

	10	-28.285	2.771	.000	-37.476	-19.094
	11	-74.873	3.331	.000	-85.922	-63.824
8	1	13.274	2.582	.000	4.708	21.839
	2	15.471	2.282	.000	7.901	23.041
	3	11.771	3.183	.012	1.213	22.329
	4	12.843	2.324	.000	5.134	20.552
	5	8.728	2.043	.001	1.952	15.505
	6	5.759	2.315	.706	-1.919	13.438
	7	4.608	2.977	1.000	-5.269	14.484
	9	-9.376	2.222	.001	-16.748	-2.005
	10	-23.678	1.808	.000	-29.675	-17.680
	11	-70.265	2.585	.000	-78.842	-61.688
9	1	22.650	2.673	.000	13.781	31.519
	2	24.847	2.385	.000	16.935	32.759
	3	21.147	3.257	.000	10.341	31.954
	4	22.219	2.425	.000	14.174	30.264
	5	18.105	2.157	.000	10.948	25.261
	6	15.136	2.416	.000	7.120	23.152
	7	13.984	3.057	.000	3.842	24.125
	8	9.376	2.222	.001	2.005	16.748
	10	-14.301	1.936	.000	-20.725	-7.877
	11	-60.889	2.677	.000	-69.770	-52.008
10	1	36.951	2.341	.000	29.186	44.716
	2	39.148	2.005	.000	32.498	45.799
	3	35.448	2.990	.000	25.529	45.368
	4	36.520	2.052	.000	29.712	43.329
	5	32.406	1.727	.000	26.675	38.137
	6	29.437	2.042	.000	22.663	36.211
	7	28.285	2.771	.000	19.094	37.476
	8	23.678	1.808	.000	17.680	29.675
	9	14.301	1.936	.000	7.877	20.725
	11	-46.587	2.345	.000	-54.366	-38.809
11	1	83.539	2.982	.000	73.644	93.433
	2	85.736	2.727	.000	76.690	94.782
	3	82.036	3.515	.000	70.374	93.698
	4	83.108	2.762	.000	73.945	92.271
	5	78.994	2.530	.000	70.600	87.387
	6	76.024	2.754	.000	66.887	85.161
	7	74.873	3.331	.000	63.824	85.922
	8	70.265	2.585	.000	61.688	78.842
	9	60.889	2.677	.000	52.008	69.770
	10	46.587	2.345	.000	38.809	54.366
Y7	1	-1.837	2.993	1.000	-11.766	8.092
	2	-3.379	3.860	1.000	-16.185	9.427
	3	-2.246	3.032	1.000	-12.304	7.811
	4	-7.164	2.776	.543	-16.374	2.046
	5	-5.144	3.023	1.000	-15.173	4.885
	6	-10.701	3.657	.189	-22.833	1.431
	7	-14.422	2.837	.000	-23.835	-5.009
	8	-18.779	2.938	.000	-28.526	-9.033
	9	-34.615	2.572	.000	-43.148	-26.081
	10	-82.426	3.277	.000	-93.299	-71.553
	11					
2	1	1.837	2.993	1.000	-8.092	11.766
	2	-1.542	3.625	1.000	-13.567	10.483
	3	-410	2.725	1.000	-9.451	8.632
	4	-5.327	2.438	1.000	-13.416	2.762
	5	-3.307	2.716	1.000	-12.317	5.703

	7	-8.864	3.408	.511	-20.168	2.440
	8	-12.585	2.508	.000	-20.904	-4.266
	9	-16.942	2.621	.000	-25.638	-8.247
	10	-32.778	2.203	.000	-40.087	-25.469
	11	-80.589	2.997	.000	-90.530	-70.648
3	1	3.379	3.860	1.000	-9.427	16.185
	2	1.542	3.625	1.000	-10.483	13.567
	4	1.133	3.657	1.000	-10.999	13.264
	5	-3.785	3.448	1.000	-15.224	7.654
	6	-1.765	3.650	1.000	-13.873	10.343
	7	-7.322	4.190	1.000	-21.222	6.578
	8	-11.043	3.497	.088	-22.646	.560
	9	-15.400	3.580	.001	-27.276	-3.525
	10	-31.236	3.286	.000	-42.137	-20.334
	11	-79.047	3.863	.000	-91.863	-66.231
4	1	2.246	3.032	1.000	-7.811	12.304
	2	.410	2.725	1.000	-8.632	9.451
	3	-1.133	3.657	1.000	-13.264	10.999
	5	-4.918	2.486	1.000	-13.164	3.328
	6	-2.898	2.758	1.000	-12.049	6.254
	7	-8.454	3.442	.772	-19.872	2.963
	8	-12.176	2.554	.000	-20.647	-3.704
	9	-16.533	2.665	.000	-25.374	-7.692
	10	-32.368	2.255	.000	-39.850	-24.886
	11	-80.179	3.035	.000	-90.249	-70.110
5	1	7.164	2.776	.543	-2.046	16.374
	2	5.327	2.438	1.000	-2.762	13.416
	3	3.785	3.448	1.000	-7.654	15.224
	4	4.918	2.486	1.000	-3.328	13.164
	6	2.020	2.475	1.000	-6.191	10.231
	7	-3.537	3.219	1.000	-14.215	7.142
	8	-7.258	2.245	.067	-14.705	.188
	9	-11.615	2.371	.000	-19.480	-3.751
	10	-27.451	1.898	.000	-33.749	-21.153
	11	-75.262	2.780	.000	-84.485	-66.038
6	1	5.144	3.023	1.000	-4.885	15.173
	2	3.307	2.716	1.000	-5.703	12.317
	3	1.765	3.650	1.000	-10.343	13.873
	4	2.898	2.758	1.000	-6.254	12.049
	5	-2.020	2.475	1.000	-10.231	6.191
	7	-5.557	3.434	1.000	-16.949	5.836
	8	-9.278	2.544	.015	-17.716	-.840
	9	-13.635	2.655	.000	-22.444	-4.826
	10	-29.471	2.244	.000	-36.915	-22.027
	11	-77.282	3.027	.000	-87.323	-67.241
7	1	10.701	3.657	.189	-1.431	22.833
	2	8.864	3.408	.511	-2.440	20.168
	3	7.322	4.190	1.000	-6.578	21.222
	4	8.454	3.442	.772	-2.963	19.872
	5	3.537	3.219	1.000	-7.142	14.215
	6	5.557	3.434	1.000	-5.836	16.949
	8	-3.721	3.272	1.000	-14.575	7.133
	9	-8.079	3.359	.890	-19.223	3.066
	10	-23.914	3.045	.000	-34.015	-13.813
	11	-71.725	3.660	.000	-83.867	-59.583
8	1	14.422	2.837	.000	5.009	23.835
	2	12.585	2.508	.000	4.266	20.904

	3	11.043	3.497	.088	-.560	22.646
	4	12.176	2.554	.000	3.704	20.647
	5	7.258	2.245	.067	-.188	14.705
	6	9.278	2.544	.015	.840	17.716
	7	3.721	3.272	1.000	-7.133	14.575
	9	-4.357	2.442	1.000	-12.458	3.744
	10	-20.192	1.987	.000	-26.783	-13.602
	11	-68.004	2.841	.000	-77.430	-58.578
9	1	18.779	2.938	.000	9.033	28.526
	2	16.942	2.621	.000	8.247	25.638
	3	15.400	3.580	.001	3.525	27.276
	4	16.533	2.665	.000	7.692	25.374
	5	11.615	2.371	.000	3.751	19.480
	6	13.635	2.655	.000	4.826	22.444
	7	8.079	3.359	.890	-3.066	19.223
	8	4.357	2.442	1.000	-3.744	12.458
	10	-15.835	2.128	.000	-22.895	-8.776
	11	-63.647	2.942	.000	-73.406	-53.887
10	1	34.615	2.572	.000	26.081	43.148
	2	32.778	2.203	.000	25.469	40.087
	3	31.236	3.286	.000	20.334	42.137
	4	32.368	2.255	.000	24.886	39.850
	5	27.451	1.898	.000	21.153	33.749
	6	29.471	2.244	.000	22.027	36.915
	7	23.914	3.045	.000	13.813	34.015
	8	20.192	1.987	.000	13.602	26.783
	9	15.835	2.128	.000	8.776	22.895
	11	-47.811	2.577	.000	-56.359	-39.264
11	1	82.426	3.277	.000	71.553	93.299
	2	80.589	2.997	.000	70.648	90.530
	3	79.047	3.863	.000	66.231	91.863
	4	80.179	3.035	.000	70.110	90.249
	5	75.262	2.780	.000	66.038	84.485
	6	77.282	3.027	.000	67.241	87.323
	7	71.725	3.660	.000	59.583	83.867
	8	68.004	2.841	.000	58.578	77.430
	9	63.647	2.942	.000	53.887	73.406
	10	47.811	2.577	.000	39.264	56.359
Y8	1	.442	2.587	1.000	-8.141	9.025
	3	-.095	3.337	1.000	-11.165	10.976
	4	-2.502	2.621	1.000	-11.196	6.192
	5	-6.510	2.400	.367	-14.472	1.452
	6	-6.143	2.613	1.000	-14.812	2.527
	7	-14.931	3.161	.000	-25.419	-4.443
	8	-15.283	2.453	.000	-23.420	-7.145
	9	-13.918	2.540	.000	-22.344	-5.492
	10	-30.043	2.224	.000	-37.420	-22.666
	11	-63.230	2.833	.000	-72.629	-53.830
2	1	-.442	2.587	1.000	-9.025	8.141
	3	-.537	3.134	1.000	-10.932	9.859
	4	-2.944	2.356	1.000	-10.760	4.872
	5	-6.952	2.108	.054	-13.945	.040
	6	-6.585	2.348	.277	-14.374	1.204
	7	-15.373	2.946	.000	-25.145	-5.601
	8	-15.725	2.168	.000	-22.916	-8.533

	9	-14.360	2.266	.000	-21.877	-6.844
	10	-30.485	1.905	.000	-36.803	-24.167
	11	-63.672	2.590	.000	-72.266	-55.078
3	1	.095	3.337	1.000	-10.976	11.165
	2	.537	3.134	1.000	-9.859	10.932
	4	-2.407	3.161	1.000	-12.895	8.080
	5	-6.416	2.981	1.000	-16.304	3.473
	6	-6.048	3.155	1.000	-16.515	4.419
	7	-14.836	3.622	.002	-26.853	-2.820
	8	-15.188	3.023	.000	-25.218	-5.157
	9	-13.824	3.095	.000	-24.090	-3.558
	10	-29.948	2.841	.000	-39.372	-20.524
	11	-63.135	3.340	.000	-74.214	-52.056
4	1	2.502	2.621	1.000	-6.192	11.196
	2	2.944	2.356	1.000	-4.872	10.760
	3	2.407	3.161	1.000	-8.080	12.895
	5	-4.008	2.149	1.000	-11.137	3.120
	6	-3.641	2.385	1.000	-11.552	4.270
	7	-12.429	2.975	.002	-22.299	-2.559
	8	-12.781	2.208	.000	-20.104	-5.457
	9	-11.416	2.304	.000	-19.059	-3.773
	10	-27.541	1.950	.000	-34.009	-21.073
	11	-60.728	2.624	.000	-69.433	-52.023
5	1	6.510	2.400	.367	-1.452	14.472
	2	6.952	2.108	.054	-.040	13.945
	3	6.416	2.981	1.000	-3.473	16.304
	4	4.008	2.149	1.000	-3.120	11.137
	6	.368	2.140	1.000	-6.731	7.466
	7	-8.421	2.783	.136	-17.652	.811
	8	-8.772	1.940	.000	-15.210	-2.335
	9	-7.408	2.049	.017	-14.207	-.609
	10	-23.533	1.641	.000	-28.977	-18.088
	11	-56.720	2.403	.000	-64.693	-48.746
6	1	6.143	2.613	1.000	-2.527	14.812
	2	6.585	2.348	.277	-1.204	14.374
	3	6.048	3.155	1.000	-4.419	16.515
	4	3.641	2.385	1.000	-4.270	11.552
	5	-.368	2.140	1.000	-7.466	6.731
	7	-8.788	2.969	.169	-18.637	1.060
	8	-9.140	2.199	.002	-16.434	-1.845
	9	-7.776	2.295	.039	-15.391	-.160
	10	-23.900	1.940	.000	-30.336	-17.465
	11	-57.087	2.617	.000	-65.768	-48.407
7	1	14.931	3.161	.000	4.443	25.419
	2	15.373	2.946	.000	5.601	25.145
	3	14.836	3.622	.002	2.820	26.853
	4	12.429	2.975	.002	2.559	22.299
	5	8.421	2.783	.136	-.811	17.652
	6	8.788	2.969	.169	-1.060	18.637
	8	-.352	2.828	1.000	-9.735	9.031

	9	1.013	2.904	1.000	-8.622	10.647
	10	-15.112	2.632	.000	-23.844	-6.380
	11	-48.299	3.164	.000	-58.796	-37.802
8	1	15.283	2.453	.000	7.145	23.420
	2	15.725	2.168	.000	8.533	22.916
	3	15.188	3.023	.000	5.157	25.218
	4	12.781	2.208	.000	5.457	20.104
	5	8.772	1.940	.000	2.335	15.210
	6	9.140	2.199	.002	1.845	16.434
	7	.352	2.828	1.000	-9.031	9.735
	9	1.364	2.111	1.000	-5.639	8.367
	10	-14.760	1.717	.000	-20.458	-9.063
	11	-47.947	2.456	.000	-56.096	-39.799
9	1	13.918	2.540	.000	5.492	22.344
	2	14.360	2.266	.000	6.844	21.877
	3	13.824	3.095	.000	3.558	24.090
	4	11.416	2.304	.000	3.773	19.059
	5	7.408	2.049	.017	.609	14.207
	6	7.776	2.295	.039	.160	15.391
	7	-1.013	2.904	1.000	-10.647	8.622
	8	-1.364	2.111	1.000	-8.367	5.639
	10	-16.125	1.840	.000	-22.228	-10.022
	11	-49.312	2.543	.000	-57.748	-40.875
10	1	30.043	2.224	.000	22.666	37.420
	2	30.485	1.905	.000	24.167	36.803
	3	29.948	2.841	.000	20.524	39.372
	4	27.541	1.950	.000	21.073	34.009
	5	23.533	1.641	.000	18.088	28.977
	6	23.900	1.940	.000	17.465	30.336
	7	15.112	2.632	.000	6.380	23.844
	8	14.760	1.717	.000	9.063	20.458
	9	16.125	1.840	.000	10.022	22.228
	11	-33.187	2.227	.000	-40.576	-25.798
11	1	63.230	2.833	.000	53.830	72.629
	2	63.672	2.590	.000	55.078	72.266
	3	63.135	3.340	.000	52.056	74.214
	4	60.728	2.624	.000	52.023	69.433
	5	56.720	2.403	.000	48.746	64.693
	6	57.087	2.617	.000	48.407	65.768
	7	48.299	3.164	.000	37.802	58.796
	8	47.947	2.456	.000	39.799	56.096
	9	49.312	2.543	.000	40.875	57.748
	10	33.187	2.227	.000	25.798	40.576

b. Faktor Kelompok Ujian

Pairwise Comparisons							
Dependent Variable	(I) X2	(J) X2	Mean Difference (I-J)	Std. Error	Sig. ^b	95% Confidence Interval for Difference ^a	
						Lower Bound	Upper Bound
Y1	1	2	-2.993	1.197	.012	-5.339	-.648
	2	1	2.993	1.197	.012	.648	5.339

Y2	1	2	-2.249	1.315	.087	-4.827	.329
	2	1	2.249	1.315	.087	-3.29	4.827
Y3	1	2	-.444	1.035	.668	-2.472	1.585
	2	1	.444	1.035	.668	-1.585	2.472
Y4	1	2	-2.625	1.195	.028	-4.968	-.283
	2	1	2.625	1.195	.028	.283	4.968
Y5	1	2	-5.321	1.123	.000	-7.521	-3.121
	2	1	5.321	1.123	.000	3.121	7.521
Y6	1	2	-1.064	1.159	.359	-3.336	1.208
	2	1	1.064	1.159	.359	-1.208	3.336
Y7	1	2	-3.639	1.274	.004	-6.135	-1.142
	2	1	3.639	1.274	.004	1.142	6.135
Y8	1	2	-2.796	1.101	.011	-4.954	-.638
	2	1	2.796	1.101	.011	.638	4.954

c. Faktor Interaksi

- Keterangan kategori interaksi

PTN	Kelompok	Interaksi
1	1	1
1	2	2
2	1	3
2	2	4
3	1	5
3	2	6
4	1	7
4	2	8
5	1	9
5	2	10
6	1	11
6	2	12
7	1	13
7	2	14
8	1	15
8	2	16
9	1	17
9	2	18
10	1	19
10	2	20
11	1	21
11	2	22

- *Post Hoc Test*

Multiple Comparisons

Games-Howell

Dependent Variable	(I) X1*X2	(J) X1*X2	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
						Lower Bound	Upper Bound
Y1	1	2	28.06	4.140	.000	13.17	42.96
		3	10.31	3.634	.370	-2.76	23.39
		4	29.28	3.699	.000	15.97	42.59
		5	-25.24	4.660	.000	-42.01	-8.47
		6	-.54	4.615	1.000	-17.16	16.09
		7	43.45	3.639	.000	30.36	56.54
		8	58.01	3.591	.000	45.09	70.93
		9	102.49	3.435	.000	90.14	114.85
		10	104.24	3.389	.000	92.04	116.43
		11	83.68	3.488	.000	71.13	96.23
		12	82.70	3.604	.000	69.73	95.66
		13	59.62	4.378	.000	43.87	75.37
		14	69.59	4.616	.000	52.97	86.22
		15	36.06	3.356	.000	23.98	48.13
		16	44.02	3.440	.000	31.65	56.40
		17	64.82	3.574	.000	51.96	77.67
		18	62.38	3.669	.000	49.18	75.58
		19	125.87	3.135	.000	114.59	137.15
		20	129.20	3.119	.000	117.97	140.42
		21	5.28	3.960	1.000	-8.96	19.53
		22	26.02	3.954	.000	11.80	40.25
			2	1	-28.06	4.140	.000	-42.96	-13.17
3	-17.75			3.757	.001	-31.27	-4.23
4	1.22			3.820	1.000	-12.53	14.96
5	-53.30			4.756	.000	-70.43	-36.18
6	-28.60			4.713	.000	-45.57	-11.62
7	15.38			3.762	.008	1.85	28.92
8	29.95			3.715	.000	16.58	43.32
9	74.43			3.565	.000	61.60	87.26
10	76.17			3.521	.000	63.50	88.85
11	55.62			3.616	.000	42.61	68.63
12	54.64			3.728	.000	41.22	68.05
13	31.56			4.480	.000	15.43	47.68
14	41.53			4.713	.000	24.56	58.51
15	7.99			3.489	.784	-4.56	20.55
16	15.96	3.570	.002	3.11	28.81		
17	36.75	3.699	.000	23.44	50.06		
18	34.32	3.791	.000	20.67	47.96		
19	97.81	3.276	.000	86.01	109.61		
20	101.13	3.261	.000	89.39	112.88		
21	-22.78	4.073	.000	-37.43	-8.12		
22	-2.04	4.067	1.000	-16.68	12.60		
	3	1	-10.31	3.634	.370	-23.39	2.76
		2	17.75	3.757	.001	4.23	31.27
		4	18.97	3.265	.000	7.22	30.71

	5	-35.56	4.323	.000	-51.12	-19.99
	6	-10.85	4.275	.603	-26.26	4.56
	7	33.13	3.196	.000	21.64	44.63
	8	47.69	3.142	.000	36.40	58.99
	9	92.18	2.962	.000	81.53	102.83
	10	93.92	2.909	.000	83.46	104.38
	11	73.37	3.023	.000	62.50	84.24
	12	72.38	3.157	.000	61.03	83.74
	13	49.30	4.017	.000	34.85	63.76
	14	59.28	4.276	.000	43.88	74.68
	15	25.74	2.870	.000	15.42	36.06
	16	33.71	2.968	.000	23.04	44.38
	17	54.50	3.122	.000	43.28	65.73
	18	52.06	3.231	.000	40.45	63.68
	19	115.56	2.608	.000	106.18	124.93
	20	118.88	2.589	.000	109.57	128.19
	21	-5.03	3.558	.999	-17.83	7.76
	22	15.71	3.551	.002	2.93	28.48
4	1	-29.28	3.699	.000	-42.59	-15.97
	2	-1.22	3.820	1.000	-14.96	12.53
	3	-18.97	3.265	.000	-30.71	-7.22
	5	-54.52	4.378	.000	-70.29	-38.76
	6	-29.82	4.330	.000	-45.42	-14.21
	7	14.17	3.270	.003	2.41	25.93
	8	28.73	3.216	.000	17.16	40.30
	9	73.21	3.041	.000	62.27	84.15
	10	74.96	2.990	.000	64.20	85.71
	11	54.40	3.101	.000	43.25	65.55
	12	53.42	3.232	.000	41.79	65.04
	13	30.34	4.076	.000	15.67	45.01
	14	40.31	4.331	.000	24.71	55.92
	15	6.78	2.952	.781	-3.84	17.39
	16	14.74	3.047	.000	3.78	25.70
	17	35.54	3.197	.000	24.04	47.03
	18	33.10	3.304	.000	21.22	44.98
	19	96.59	2.698	.000	86.88	106.29
	20	99.92	2.679	.000	90.28	109.56
	21	-24.00	3.624	.000	-37.03	-10.96
	22	-3.26	3.617	1.000	-16.27	9.76
5	1	25.24	4.660	.000	8.47	42.01
	2	53.30	4.756	.000	36.18	70.43
	3	35.56	4.323	.000	19.99	51.12
	4	54.52	4.378	.000	38.76	70.29
	6	24.71	5.175	.000	6.07	43.34
	7	68.69	4.327	.000	53.11	84.27
	8	83.25	4.286	.000	67.81	98.69
	9	127.73	4.157	.000	112.76	142.71
	10	129.48	4.119	.000	114.64	144.32
	11	108.92	4.200	.000	93.79	124.05
	12	107.94	4.298	.000	92.46	123.42

	13	84.86	4.964	.000	66.99	102.73
	14	94.84	5.176	.000	76.20	113.47
	15	61.30	4.092	.000	46.56	76.04
	16	69.26	4.161	.000	54.28	84.25
	17	90.06	4.272	.000	74.67	105.44
	18	87.62	4.352	.000	71.95	103.29
	19	151.11	3.912	.000	137.01	165.21
	20	154.44	3.900	.000	140.38	168.49
	21	30.53	4.600	.000	13.97	47.08
	22	51.26	4.595	.000	34.72	67.81
6	1	.54	4.615	1.000	-16.09	17.16
	2	28.60	4.713	.000	11.62	45.57
	3	10.85	4.275	.603	-4.56	26.26
	4	29.82	4.330	.000	14.21	45.42
	5	-24.71	5.175	.000	-43.34	-6.07
	7	43.98	4.279	.000	28.56	59.40
	8	58.54	4.238	.000	43.27	73.82
	9	103.03	4.107	.000	88.22	117.83
	10	104.77	4.069	.000	90.10	119.44
	11	84.22	4.151	.000	69.25	99.18
	12	83.23	4.250	.000	67.92	98.55
	13	60.15	4.923	.000	42.43	77.88
	14	70.13	5.136	.000	51.63	88.63
	15	36.59	4.041	.000	22.02	51.16
	16	44.56	4.112	.000	29.74	59.38
	17	65.35	4.224	.000	50.13	80.58
	18	62.91	4.305	.000	47.40	78.43
	19	126.41	3.859	.000	112.48	140.33
	20	129.73	3.847	.000	115.85	143.61
	21	5.82	4.555	1.000	-10.59	22.23
	22	26.56	4.550	.000	10.17	42.95
7	1	-43.45	3.639	.000	-56.54	-30.36
	2	-15.38	3.762	.008	-28.92	-1.85
	3	-33.13	3.196	.000	-44.63	-21.64
	4	-14.17	3.270	.003	-25.93	-2.41
	5	-68.69	4.327	.000	-84.27	-53.11
	6	-43.98	4.279	.000	-59.40	-28.56
	8	14.56	3.147	.001	3.24	25.88
	9	59.05	2.968	.000	48.38	69.72
	10	60.79	2.915	.000	50.31	71.27
	11	40.23	3.029	.000	29.34	51.12
	12	39.25	3.162	.000	27.88	50.62
	13	16.17	4.021	.011	1.70	30.64
	14	26.15	4.280	.000	10.73	41.57
	15	-7.39	2.876	.577	-17.73	2.95
	16	.58	2.974	1.000	-10.12	11.27
	17	21.37	3.128	.000	10.12	32.62
	18	18.93	3.236	.000	7.29	30.57
	19	82.42	2.614	.000	73.02	91.83
	20	85.75	2.595	.000	76.42	95.08

	21	-38.16	3.562	.000	-50.97	-25.35
	22	-17.42	3.556	.000	-30.22	-4.63
8	1	-58.01	3.591	.000	-70.93	-45.09
	2	-29.95	3.715	.000	-43.32	-16.58
	3	-47.69	3.142	.000	-58.99	-36.40
	4	-28.73	3.216	.000	-40.30	-17.16
	5	-83.25	4.286	.000	-98.69	-67.81
	6	-58.54	4.238	.000	-73.82	-43.27
	7	-14.56	3.147	.001	-25.88	-3.24
	9	44.48	2.909	.000	34.02	54.94
	10	46.23	2.855	.000	35.96	56.49
	11	25.67	2.971	.000	14.99	36.36
	12	24.69	3.107	.000	13.51	35.86
	13	1.61	3.978	1.000	-12.71	15.93
	14	11.59	4.239	.449	-3.69	26.86
	15	-21.95	2.815	.000	-32.08	-11.83
	16	-13.99	2.915	.000	-24.47	-3.50
	17	6.81	3.071	.830	-4.24	17.85
	18	4.37	3.182	.999	-7.07	15.81
	19	67.86	2.547	.000	58.70	77.02
	20	71.19	2.528	.000	62.10	80.28
	21	-52.72	3.513	.000	-65.36	-40.09
	22	-31.99	3.506	.000	-44.60	-19.37
9	1	-102.49	3.435	.000	-114.85	-90.14
	2	-74.43	3.565	.000	-87.26	-61.60
	3	-92.18	2.962	.000	-102.83	-81.53
	4	-73.21	3.041	.000	-84.15	-62.27
	5	-127.73	4.157	.000	-142.71	-112.76
	6	-103.03	4.107	.000	-117.83	-88.22
	7	-59.05	2.968	.000	-69.72	-48.38
	8	-44.48	2.909	.000	-54.94	-34.02
	10	1.74	2.656	1.000	-7.80	11.29
	11	-18.81	2.780	.000	-28.81	-8.82
	12	-19.79	2.925	.000	-30.32	-9.27
	13	-42.87	3.838	.000	-56.69	-29.06
	14	-32.90	4.108	.000	-47.70	-18.09
	15	-66.44	2.613	.000	-75.83	-57.04
	16	-58.47	2.720	.000	-68.25	-48.69
	17	-37.68	2.888	.000	-48.06	-27.29
	18	-40.11	3.005	.000	-50.92	-29.31
	19	23.38	2.322	.000	15.03	31.72
	20	26.70	2.301	.000	18.43	34.97
	21	-97.21	3.354	.000	-109.27	-85.15
	22	-76.47	3.347	.000	-88.51	-64.43
10	1	-104.24	3.389	.000	-116.43	-92.04
	2	-76.17	3.521	.000	-88.85	-63.50
	3	-93.92	2.909	.000	-104.38	-83.46
	4	-74.96	2.990	.000	-85.71	-64.20
	5	-129.48	4.119	.000	-144.32	-114.64
	6	-104.77	4.069	.000	-119.44	-90.10

	7	-60.79	2.915	.000	-71.27	-50.31
	8	-46.23	2.855	.000	-56.49	-35.96
	9	-1.74	2.656	1.000	-11.29	7.80
	11	-20.56	2.724	.000	-30.35	-10.76
	12	-21.54	2.872	.000	-31.87	-11.21
	13	-44.62	3.797	.000	-58.29	-30.95
	14	-34.64	4.070	.000	-49.31	-19.97
	15	-68.18	2.553	.000	-77.36	-59.00
	16	-60.21	2.663	.000	-69.79	-50.64
	17	-39.42	2.833	.000	-49.61	-29.23
	18	-41.86	2.953	.000	-52.48	-31.24
	19	21.63	2.254	.000	13.53	29.74
	20	24.96	2.232	.000	16.94	32.99
	21	-98.95	3.307	.000	-110.85	-87.06
	22	-78.21	3.300	.000	-90.09	-66.34
11	1	-83.68	3.488	.000	-96.23	-71.13
	2	-55.62	3.616	.000	-68.63	-42.61
	3	-73.37	3.023	.000	-84.24	-62.50
	4	-54.40	3.101	.000	-65.55	-43.25
	5	-108.92	4.200	.000	-124.05	-93.79
	6	-84.22	4.151	.000	-99.18	-69.25
	7	-40.23	3.029	.000	-51.12	-29.34
	8	-25.67	2.971	.000	-36.36	-14.99
	9	18.81	2.780	.000	8.82	28.81
	10	20.56	2.724	.000	10.76	30.35
	12	-.98	2.987	1.000	-11.73	9.76
	13	-24.06	3.885	.000	-38.05	-10.08
	14	-14.09	4.152	.096	-29.05	.88
	15	-47.62	2.682	.000	-57.27	-37.98
	16	-39.66	2.787	.000	-49.68	-29.64
	17	-18.86	2.950	.000	-29.47	-8.26
	18	-21.30	3.065	.000	-32.32	-10.28
	19	42.19	2.399	.000	33.56	50.82
	20	45.52	2.379	.000	36.96	54.07
	21	-78.40	3.408	.000	-90.65	-66.14
	22	-57.66	3.401	.000	-69.89	-45.42
12	1	-82.70	3.604	.000	-95.66	-69.73
	2	-54.64	3.728	.000	-68.05	-41.22
	3	-72.38	3.157	.000	-83.74	-61.03
	4	-53.42	3.232	.000	-65.04	-41.79
	5	-107.94	4.298	.000	-123.42	-92.46
	6	-83.23	4.250	.000	-98.55	-67.92
	7	-39.25	3.162	.000	-50.62	-27.88
	8	-24.69	3.107	.000	-35.86	-13.51
	9	19.79	2.925	.000	9.27	30.32
	10	21.54	2.872	.000	11.21	31.87
	11	.98	2.987	1.000	-9.76	11.73
	13	-23.08	3.990	.000	-37.44	-8.72
	14	-13.10	4.250	.219	-28.42	2.21
	15	-46.64	2.832	.000	-56.83	-36.46

	16	-38.67	2.932	.000	-49.22	-28.13
	17	-17.88	3.087	.000	-28.98	-6.78
	18	-20.32	3.197	.000	-31.82	-8.82
	19	43.17	2.566	.000	33.94	52.40
	20	46.50	2.547	.000	37.34	55.66
	21	-77.41	3.527	.000	-90.10	-64.73
	22	-56.67	3.520	.000	-69.34	-44.01
13	1	-59.62	4.378	.000	-75.37	-43.87
	2	-31.56	4.480	.000	-47.68	-15.43
	3	-49.30	4.017	.000	-63.76	-34.85
	4	-30.34	4.076	.000	-45.01	-15.67
	5	-84.86	4.964	.000	-102.73	-66.99
	6	-60.15	4.923	.000	-77.88	-42.43
	7	-16.17	4.021	.011	-30.64	-1.70
	8	-1.61	3.978	1.000	-15.93	12.71
	9	42.87	3.838	.000	29.06	56.69
	10	44.62	3.797	.000	30.95	58.29
	11	24.06	3.885	.000	10.08	38.05
	12	23.08	3.990	.000	8.72	37.44
	14	9.98	4.923	.918	-7.75	27.70
	15	-23.56	3.767	.000	-37.12	-10.00
	16	-15.59	3.843	.010	-29.43	-1.76
	17	5.20	3.963	1.000	-9.06	19.46
	18	2.76	4.049	1.000	-11.81	17.33
	19	66.25	3.572	.000	53.39	79.11
	20	69.58	3.558	.000	56.77	82.39
	21	-54.33	4.314	.000	-69.86	-38.81
	22	-33.59	4.309	.000	-49.10	-18.09
14	1	-69.59	4.616	.000	-86.22	-52.97
	2	-41.53	4.713	.000	-58.51	-24.56
	3	-59.28	4.276	.000	-74.68	-43.88
	4	-40.31	4.331	.000	-55.92	-24.71
	5	-94.84	5.176	.000	-113.47	-76.20
	6	-70.13	5.136	.000	-88.63	-51.63
	7	-26.15	4.280	.000	-41.57	-10.73
	8	-11.59	4.239	.449	-26.86	3.69
	9	32.90	4.108	.000	18.09	47.70
	10	34.64	4.070	.000	19.97	49.31
	11	14.09	4.152	.096	-.88	29.05
	12	13.10	4.250	.219	-2.21	28.42
	13	-9.98	4.923	.918	-27.70	7.75
	15	-33.54	4.042	.000	-48.11	-18.97
	16	-25.57	4.112	.000	-40.39	-10.75
	17	-4.78	4.225	1.000	-20.00	10.44
	18	-7.22	4.306	.989	-22.73	8.29
	19	56.28	3.860	.000	42.35	70.20
	20	59.60	3.847	.000	45.73	73.48
	21	-64.31	4.556	.000	-80.72	-47.90
	22	-43.57	4.551	.000	-59.96	-27.18
15	1	-36.06	3.356	.000	-48.13	-23.98

	2	-7.99	3.489	.784	-20.55	4.56
	3	-25.74	2.870	.000	-36.06	-15.42
	4	-6.78	2.952	.781	-17.39	3.84
	5	-61.30	4.092	.000	-76.04	-46.56
	6	-36.59	4.041	.000	-51.16	-22.02
	7	7.39	2.876	.577	-2.95	17.73
	8	21.95	2.815	.000	11.83	32.08
	9	66.44	2.613	.000	57.04	75.83
	10	68.18	2.553	.000	59.00	77.36
	11	47.62	2.682	.000	37.98	57.27
	12	46.64	2.832	.000	36.46	56.83
	13	23.56	3.767	.000	10.00	37.12
	14	33.54	4.042	.000	18.97	48.11
	16	7.97	2.620	.240	-1.45	17.39
	17	28.76	2.793	.000	18.72	38.80
	18	26.32	2.914	.000	15.84	36.80
	19	89.81	2.203	.000	81.89	97.73
	20	93.14	2.181	.000	85.30	100.98
	21	-30.77	3.272	.000	-42.54	-19.00
	22	-10.03	3.265	.223	-21.78	1.72
16	1	-44.02	3.440	.000	-56.40	-31.65
	2	-15.96	3.570	.002	-28.81	-3.11
	3	-33.71	2.968	.000	-44.38	-23.04
	4	-14.74	3.047	.000	-25.70	-3.78
	5	-69.26	4.161	.000	-84.25	-54.28
	6	-44.56	4.112	.000	-59.38	-29.74
	7	-.58	2.974	1.000	-11.27	10.12
	8	13.99	2.915	.000	3.50	24.47
	9	58.47	2.720	.000	48.69	68.25
	10	60.21	2.663	.000	50.64	69.79
	11	39.66	2.787	.000	29.64	49.68
	12	38.67	2.932	.000	28.13	49.22
	13	15.59	3.843	.010	1.76	29.43
	14	25.57	4.112	.000	10.75	40.39
	15	-7.97	2.620	.240	-17.39	1.45
	17	20.79	2.894	.000	10.39	31.20
	18	18.36	3.011	.000	7.53	29.18
	19	81.85	2.330	.000	73.47	90.22
	20	85.17	2.309	.000	76.87	93.48
	21	-38.74	3.359	.000	-50.82	-26.66
	22	-18.00	3.352	.000	-30.06	-5.94
17	1	-64.82	3.574	.000	-77.67	-51.96
	2	-36.75	3.699	.000	-50.06	-23.44
	3	-54.50	3.122	.000	-65.73	-43.28
	4	-35.54	3.197	.000	-47.03	-24.04
	5	-90.06	4.272	.000	-105.44	-74.67
	6	-65.35	4.224	.000	-80.58	-50.13
	7	-21.37	3.128	.000	-32.62	-10.12
	8	-6.81	3.071	.830	-17.85	4.24
	9	37.68	2.888	.000	27.29	48.06

	10	39.42	2.833	.000	29.23	49.61
	11	18.86	2.950	.000	8.26	29.47
	12	17.88	3.087	.000	6.78	28.98
	13	-5.20	3.963	1.000	-19.46	9.06
	14	4.78	4.225	1.000	-10.44	20.00
	15	-28.76	2.793	.000	-38.80	-18.72
	16	-20.79	2.894	.000	-31.20	-10.39
	18	-2.44	3.163	1.000	-13.81	8.93
	19	61.05	2.523	.000	51.98	70.13
	20	64.38	2.503	.000	55.38	73.38
	21	-59.53	3.496	.000	-72.11	-46.96
	22	-38.79	3.489	.000	-51.35	-26.24
18	1	-62.38	3.669	.000	-75.58	-49.18
	2	-34.32	3.791	.000	-47.96	-20.67
	3	-52.06	3.231	.000	-63.68	-40.45
	4	-33.10	3.304	.000	-44.98	-21.22
	5	-87.62	4.352	.000	-103.29	-71.95
	6	-62.91	4.305	.000	-78.43	-47.40
	7	-18.93	3.236	.000	-30.57	-7.29
	8	-4.37	3.182	.999	-15.81	7.07
	9	40.11	3.005	.000	29.31	50.92
	10	41.86	2.953	.000	31.24	52.48
	11	21.30	3.065	.000	10.28	32.32
	12	20.32	3.197	.000	8.82	31.82
	13	-2.76	4.049	1.000	-17.33	11.81
	14	7.22	4.306	.989	-8.29	22.73
	15	-26.32	2.914	.000	-36.80	-15.84
	16	-18.36	3.011	.000	-29.18	-7.53
	17	2.44	3.163	1.000	-8.93	13.81
	19	63.49	2.656	.000	53.94	73.05
	20	66.82	2.638	.000	57.33	76.31
	21	-57.09	3.593	.000	-70.02	-44.17
	22	-36.36	3.587	.000	-49.26	-23.45
19	1	-125.87	3.135	.000	-137.15	-114.59
	2	-97.81	3.276	.000	-109.61	-86.01
	3	-115.56	2.608	.000	-124.93	-106.18
	4	-96.59	2.698	.000	-106.29	-86.88
	5	-151.11	3.912	.000	-165.21	-137.01
	6	-126.41	3.859	.000	-140.33	-112.48
	7	-82.42	2.614	.000	-91.83	-73.02
	8	-67.86	2.547	.000	-77.02	-58.70
	9	-23.38	2.322	.000	-31.72	-15.03
	10	-21.63	2.254	.000	-29.74	-13.53
	11	-42.19	2.399	.000	-50.82	-33.56
	12	-43.17	2.566	.000	-52.40	-33.94
	13	-66.25	3.572	.000	-79.11	-53.39
	14	-56.28	3.860	.000	-70.20	-42.35
	15	-89.81	2.203	.000	-97.73	-81.89
	16	-81.85	2.330	.000	-90.22	-73.47
	17	-61.05	2.523	.000	-70.13	-51.98

	18	-63.49	2.656	.000	-73.05	-53.94
	20	3.33	1.822	.971	-3.22	9.88
	21	-120.59	3.045	.000	-131.54	-109.63
	22	-99.85	3.037	.000	-110.78	-88.91
20	1	-129.20	3.119	.000	-140.42	-117.97
	2	-101.13	3.261	.000	-112.88	-89.39
	3	-118.88	2.589	.000	-128.19	-109.57
	4	-99.92	2.679	.000	-109.56	-90.28
	5	-154.44	3.900	.000	-168.49	-140.38
	6	-129.73	3.847	.000	-143.61	-115.85
	7	-85.75	2.595	.000	-95.08	-76.42
	8	-71.19	2.528	.000	-80.28	-62.10
	9	-26.70	2.301	.000	-34.97	-18.43
	10	-24.96	2.232	.000	-32.99	-16.94
	11	-45.52	2.379	.000	-54.07	-36.96
	12	-46.50	2.547	.000	-55.66	-37.34
	13	-69.58	3.558	.000	-82.39	-56.77
	14	-59.60	3.847	.000	-73.48	-45.73
	15	-93.14	2.181	.000	-100.98	-85.30
	16	-85.17	2.309	.000	-93.48	-76.87
	17	-64.38	2.503	.000	-73.38	-55.38
	18	-66.82	2.638	.000	-76.31	-57.33
	19	-3.33	1.822	.971	-9.88	3.22
	21	-123.91	3.029	.000	-134.81	-113.01
	22	-103.17	3.021	.000	-114.05	-92.29
21	1	-5.28	3.960	1.000	-19.53	8.96
	2	22.78	4.073	.000	8.12	37.43
	3	5.03	3.558	.999	-7.76	17.83
	4	24.00	3.624	.000	10.96	37.03
	5	-30.53	4.600	.000	-47.08	-13.97
	6	-5.82	4.555	1.000	-22.23	10.59
	7	38.16	3.562	.000	25.35	50.97
	8	52.72	3.513	.000	40.09	65.36
	9	97.21	3.354	.000	85.15	109.27
	10	98.95	3.307	.000	87.06	110.85
	11	78.40	3.408	.000	66.14	90.65
	12	77.41	3.527	.000	64.73	90.10
	13	54.33	4.314	.000	38.81	69.86
	14	64.31	4.556	.000	47.90	80.72
	15	30.77	3.272	.000	19.00	42.54
	16	38.74	3.359	.000	26.66	50.82
	17	59.53	3.496	.000	46.96	72.11
	18	57.09	3.593	.000	44.17	70.02
	19	120.59	3.045	.000	109.63	131.54
	20	123.91	3.029	.000	113.01	134.81
	22	20.74	3.883	.000	6.77	34.71
22	1	-26.02	3.954	.000	-40.25	-11.80
	2	2.04	4.067	1.000	-12.60	16.68
	3	-15.71	3.551	.002	-28.48	-2.93
	4	3.26	3.617	1.000	-9.76	16.27

		5	-51.26	4.595	.000	-67.81	-34.72
		6	-26.56	4.550	.000	-42.95	-10.17
		7	17.42	3.556	.000	4.63	30.22
		8	31.99	3.506	.000	19.37	44.60
		9	76.47	3.347	.000	64.43	88.51
		10	78.21	3.300	.000	66.34	90.09
		11	57.66	3.401	.000	45.42	69.89
		12	56.67	3.520	.000	44.01	69.34
		13	33.59	4.309	.000	18.09	49.10
		14	43.57	4.551	.000	27.18	59.96
		15	10.03	3.265	.223	-1.72	21.78
		16	18.00	3.352	.000	5.94	30.06
		17	38.79	3.489	.000	26.24	51.35
		18	36.36	3.587	.000	23.45	49.26
		19	99.85	3.037	.000	88.91	110.78
		20	103.17	3.021	.000	92.29	114.05
		21	-20.74	3.883	.000	-34.71	-6.77
Y2	1	2	19.97	5.254	.025	1.07	38.87
		3	8.17	4.528	.974	-8.11	24.46
		4	16.81	4.708	.055	-.13	33.74
		5	-48.45	6.243	.000	-70.93	-25.97
		6	-30.94	6.347	.000	-53.81	-8.07
		7	58.41	4.422	.000	42.50	74.31
		8	67.53	4.477	.000	51.43	83.63
		9	107.14	4.108	.000	92.36	121.92
		10	104.71	4.085	.000	90.01	119.41
		11	96.64	4.205	.000	81.51	111.77
		12	95.67	4.325	.000	80.11	111.23
		13	68.77	5.012	.000	50.74	86.80
		14	70.86	5.394	.000	51.44	90.28
		15	38.29	4.177	.000	23.26	53.32
		16	41.19	4.334	.000	25.59	56.78
		17	79.08	4.290	.000	63.65	94.51
		18	67.27	4.504	.000	51.07	83.47
		19	130.08	3.818	.000	116.33	143.82
		20	127.64	3.818	.000	113.89	141.38
		21	3.15	4.924	1.000	-14.56	20.86
		22	14.18	5.047	.391	-3.98	32.33
	2	1	-19.97	5.254	.025	-38.87	-1.07
		3	-11.80	4.687	.619	-28.66	5.07
		4	-3.16	4.862	1.000	-20.66	14.33
		5	-68.42	6.360	.000	-91.32	-45.52
		6	-50.91	6.462	.000	-74.19	-27.63
		7	38.44	4.585	.000	21.94	54.94
		8	47.56	4.638	.000	30.87	64.25
		9	87.17	4.283	.000	71.75	102.59
		10	84.74	4.261	.000	69.40	100.08
		11	76.67	4.376	.000	60.92	92.42
		12	75.70	4.492	.000	59.53	91.87
		13	48.80	5.157	.000	30.24	67.35
		14	50.89	5.528	.000	30.99	70.79
		15	18.32	4.349	.005	2.66	33.97
		16	21.21	4.500	.001	5.02	37.41
		17	59.11	4.458	.000	43.06	75.15
		18	47.30	4.664	.000	30.51	64.08

	19	110.10	4.006	.000	95.67	124.53
	20	107.66	4.006	.000	93.24	122.09
	21	-16.83	5.071	.118	-35.07	1.42
	22	-5.80	5.190	1.000	-24.47	12.88
3	1	-8.17	4.528	.974	-24.46	8.11
	2	11.80	4.687	.619	-5.07	28.66
	4	8.63	4.066	.878	-5.99	23.26
	5	-56.62	5.775	.000	-77.42	-35.83
	6	-39.11	5.887	.000	-60.34	-17.89
	7	50.23	3.731	.000	36.82	63.65
	8	59.36	3.796	.000	45.71	73.01
	9	98.97	3.353	.000	86.91	111.02
	10	96.54	3.324	.000	84.58	108.49
	11	88.47	3.471	.000	75.99	100.95
	12	87.50	3.616	.000	74.50	100.50
	13	60.59	4.415	.000	44.71	76.48
	14	62.69	4.843	.000	45.24	80.13
	15	30.11	3.437	.000	17.76	42.47
	16	33.01	3.626	.000	19.97	46.05
	17	70.90	3.573	.000	58.06	83.75
	18	59.10	3.828	.000	45.33	72.86
	19	121.90	2.991	.000	111.14	132.66
	20	119.46	2.991	.000	108.71	130.22
	21	-5.03	4.314	1.000	-20.54	10.49
	22	6.00	4.454	.999	-10.02	22.03
4	1	-16.81	4.708	.055	-33.74	.13
	2	3.16	4.862	1.000	-14.33	20.66
	3	-8.63	4.066	.878	-23.26	5.99
	5	-65.26	5.917	.000	-86.57	-43.95
	6	-47.75	6.027	.000	-69.47	-26.02
	7	41.60	3.948	.000	27.40	55.80
	8	50.72	4.010	.000	36.30	65.14
	9	90.33	3.594	.000	77.40	103.26
	10	87.90	3.567	.000	75.07	100.73
	11	79.83	3.704	.000	66.51	93.16
	12	78.86	3.840	.000	65.05	92.67
	13	51.96	4.600	.000	35.41	68.51
	14	54.05	5.013	.000	36.00	72.10
	15	21.48	3.672	.000	8.27	34.69
	16	24.38	3.850	.000	10.53	38.22
	17	62.27	3.800	.000	48.60	75.94
	18	50.46	4.040	.000	35.93	64.99
	19	113.27	3.258	.000	101.54	124.99
	20	110.83	3.258	.000	99.10	122.55
	21	-13.66	4.503	.244	-29.86	2.54
	22	-2.63	4.637	1.000	-19.32	14.05
5	1	48.45	6.243	.000	25.97	70.93
	2	68.42	6.360	.000	45.52	91.32
	3	56.62	5.775	.000	35.83	77.42
	4	65.26	5.917	.000	43.95	86.57
	6	17.51	7.289	.707	-8.74	43.76
	7	106.86	5.692	.000	86.35	127.36
	8	115.98	5.735	.000	95.32	136.64
	9	155.59	5.452	.000	135.94	175.24
	10	153.16	5.434	.000	133.58	172.75
	11	145.09	5.525	.000	125.18	165.00
	12	144.12	5.617	.000	123.88	164.36

	13	117.22	6.162	.000	95.03	139.41
	14	119.31	6.476	.000	95.99	142.63
	15	86.74	5.504	.000	66.91	106.57
	16	89.64	5.624	.000	69.37	109.90
	17	127.53	5.590	.000	107.39	147.67
	18	115.72	5.756	.000	94.99	136.45
	19	178.53	5.237	.000	159.64	197.41
	20	176.09	5.237	.000	157.20	194.97
	21	51.60	6.090	.000	29.67	73.53
	22	62.63	6.190	.000	40.34	84.91
6	1	30.94	6.347	.000	8.07	53.81
	2	50.91	6.462	.000	27.63	74.19
	3	39.11	5.887	.000	17.89	60.34
	4	47.75	6.027	.000	26.02	69.47
	5	-17.51	7.289	.707	-43.76	8.74
	7	89.35	5.806	.000	68.41	110.28
	8	98.47	5.848	.000	77.38	119.55
	9	138.08	5.571	.000	117.98	158.18
	10	135.65	5.554	.000	115.61	155.69
	11	127.58	5.643	.000	107.23	147.94
	12	126.61	5.733	.000	105.94	147.29
	13	99.71	6.267	.000	77.12	122.29
	14	101.80	6.576	.000	78.10	125.49
	15	69.23	5.622	.000	48.95	89.51
	16	72.13	5.739	.000	51.43	92.82
	17	110.02	5.706	.000	89.44	130.60
	18	98.21	5.869	.000	77.05	119.37
	19	161.02	5.361	.000	141.66	180.37
	20	158.57	5.360	.000	139.22	177.93
	21	34.09	6.197	.000	11.76	56.42
	22	45.11	6.295	.000	22.43	67.80
7	1	-58.41	4.422	.000	-74.31	-42.50
	2	-38.44	4.585	.000	-54.94	-21.94
	3	-50.23	3.731	.000	-63.65	-36.82
	4	-41.60	3.948	.000	-55.80	-27.40
	5	-106.86	5.692	.000	-127.36	-86.35
	6	-89.35	5.806	.000	-110.28	-68.41
	8	9.12	3.669	.643	-4.07	22.32
	9	48.73	3.209	.000	37.19	60.27
	10	46.30	3.179	.000	34.87	57.73
	11	38.23	3.332	.000	26.25	50.22
	12	37.26	3.482	.000	24.74	49.79
	13	10.36	4.306	.704	-5.14	25.85
	14	12.45	4.745	.534	-4.64	29.54
	15	-20.12	3.297	.000	-31.97	-8.27
	16	-17.22	3.493	.000	-29.78	-4.66
	17	20.67	3.438	.000	8.31	33.03
	18	8.86	3.702	.713	-4.45	22.18
	19	71.67	2.828	.000	61.49	81.84
	20	69.23	2.828	.000	59.06	79.40
	21	-55.26	4.203	.000	-70.38	-40.15
	22	-44.23	4.346	.000	-59.87	-28.59
8	1	-67.53	4.477	.000	-83.63	-51.43
	2	-47.56	4.638	.000	-64.25	-30.87
	3	-59.36	3.796	.000	-73.01	-45.71
	4	-50.72	4.010	.000	-65.14	-36.30
	5	-115.98	5.735	.000	-136.64	-95.32

	6	-98.47	5.848	.000	-119.55	-77.38
	7	-9.12	3.669	.643	-22.32	4.07
	9	39.61	3.284	.000	27.80	51.42
	10	37.18	3.255	.000	25.47	48.89
	11	29.11	3.405	.000	16.87	41.36
	12	28.14	3.552	.000	15.37	40.92
	13	1.24	4.362	1.000	-14.46	16.93
	14	3.33	4.796	1.000	-13.94	20.60
	15	-29.24	3.370	.000	-41.36	-17.12
	16	-26.34	3.562	.000	-39.16	-13.53
	17	11.55	3.509	.126	-1.07	24.17
	18	-.26	3.767	1.000	-13.81	13.29
	19	62.55	2.913	.000	52.06	73.03
	20	60.11	2.913	.000	49.62	70.59
	21	-64.38	4.260	.000	-79.71	-49.06
	22	-53.35	4.402	.000	-69.20	-37.51
9	1	-107.14	4.108	.000	-121.92	-92.36
	2	-87.17	4.283	.000	-102.59	-71.75
	3	-98.97	3.353	.000	-111.02	-86.91
	4	-90.33	3.594	.000	-103.26	-77.40
	5	-155.59	5.452	.000	-175.24	-135.94
	6	-138.08	5.571	.000	-158.18	-117.98
	7	-48.73	3.209	.000	-60.27	-37.19
	8	-39.61	3.284	.000	-51.42	-27.80
	10	-2.43	2.726	1.000	-12.23	7.37
	11	-10.50	2.904	.047	-20.94	-.06
	12	-11.47	3.075	.032	-22.53	-.41
	13	-38.37	3.984	.000	-52.71	-24.03
	14	-36.28	4.454	.000	-52.33	-20.23
	15	-68.85	2.862	.000	-79.14	-58.56
	16	-65.95	3.087	.000	-77.05	-54.85
	17	-28.06	3.025	.000	-38.94	-17.19
	18	-39.87	3.321	.000	-51.82	-27.93
	19	22.94	2.308	.000	14.64	31.23
	20	20.50	2.307	.000	12.20	28.79
	21	-103.99	3.872	.000	-117.92	-90.07
	22	-92.96	4.027	.000	-107.46	-78.47
10	1	-104.71	4.085	.000	-119.41	-90.01
	2	-84.74	4.261	.000	-100.08	-69.40
	3	-96.54	3.324	.000	-108.49	-84.58
	4	-87.90	3.567	.000	-100.73	-75.07
	5	-153.16	5.434	.000	-172.75	-133.58
	6	-135.65	5.554	.000	-155.69	-115.61
	7	-46.30	3.179	.000	-57.73	-34.87
	8	-37.18	3.255	.000	-48.89	-25.47
	9	2.43	2.726	1.000	-7.37	12.23
	11	-8.07	2.870	.389	-18.39	2.25
	12	-9.04	3.043	.281	-19.98	1.91
	13	-35.94	3.959	.000	-50.20	-21.69
	14	-33.85	4.432	.000	-49.83	-17.87
	15	-66.42	2.828	.000	-76.59	-56.25
	16	-63.53	3.056	.000	-74.51	-52.54
	17	-25.63	2.993	.000	-36.39	-14.87
	18	-37.44	3.292	.000	-49.28	-25.60
	19	25.36	2.265	.000	17.22	33.51
	20	22.92	2.265	.000	14.78	31.07
	21	-101.57	3.847	.000	-115.40	-87.73

	22	-90.54	4.003	.000	-104.95	-76.13
11	1	-96.64	4.205	.000	-111.77	-81.51
	2	-76.67	4.376	.000	-92.42	-60.92
	3	-88.47	3.471	.000	-100.95	-75.99
	4	-79.83	3.704	.000	-93.16	-66.51
	5	-145.09	5.525	.000	-165.00	-125.18
	6	-127.58	5.643	.000	-147.94	-107.23
	7	-38.23	3.332	.000	-50.22	-26.25
	8	-29.11	3.405	.000	-41.36	-16.87
	9	10.50	2.904	.047	.06	20.94
	10	8.07	2.870	.389	-2.25	18.39
	12	-.97	3.203	1.000	-12.49	10.55
	13	-27.87	4.083	.000	-42.57	-13.18
	14	-25.78	4.543	.000	-42.15	-9.41
	15	-58.35	3.000	.000	-69.14	-47.57
	16	-55.46	3.215	.000	-67.01	-43.90
	17	-17.56	3.155	.000	-28.91	-6.22
	18	-29.37	3.440	.000	-41.74	-17.00
	19	33.43	2.476	.000	24.53	42.34
	20	30.99	2.476	.000	22.09	39.90
	21	-93.50	3.974	.000	-107.79	-79.20
	22	-82.47	4.125	.000	-97.31	-67.62
12	1	-95.67	4.325	.000	-111.23	-80.11
	2	-75.70	4.492	.000	-91.87	-59.53
	3	-87.50	3.616	.000	-100.50	-74.50
	4	-78.86	3.840	.000	-92.67	-65.05
	5	-144.12	5.617	.000	-164.36	-123.88
	6	-126.61	5.733	.000	-147.29	-105.94
	7	-37.26	3.482	.000	-49.79	-24.74
	8	-28.14	3.552	.000	-40.92	-15.37
	9	11.47	3.075	.032	.41	22.53
	10	9.04	3.043	.281	-1.91	19.98
	11	.97	3.203	1.000	-10.55	12.49
	13	-26.90	4.207	.000	-42.04	-11.77
	14	-24.81	4.654	.000	-41.58	-8.04
	15	-57.38	3.165	.000	-68.77	-46.00
	16	-54.49	3.370	.000	-66.61	-42.36
	17	-16.59	3.313	.000	-28.51	-4.68
	18	-28.40	3.586	.000	-41.30	-15.50
	19	34.40	2.674	.000	24.78	44.03
	20	31.96	2.674	.000	22.34	41.59
	21	-92.53	4.101	.000	-107.28	-77.77
	22	-81.50	4.248	.000	-96.78	-66.21
13	1	-68.77	5.012	.000	-86.80	-50.74
	2	-48.80	5.157	.000	-67.35	-30.24
	3	-60.59	4.415	.000	-76.48	-44.71
	4	-51.96	4.600	.000	-68.51	-35.41
	5	-117.22	6.162	.000	-139.41	-95.03
	6	-99.71	6.267	.000	-122.29	-77.12
	7	-10.36	4.306	.704	-25.85	5.14
	8	-1.24	4.362	1.000	-16.93	14.46
	9	38.37	3.984	.000	24.03	52.71
	10	35.94	3.959	.000	21.69	50.20
	11	27.87	4.083	.000	13.18	42.57
	12	26.90	4.207	.000	11.77	42.04
	14	2.09	5.299	1.000	-16.99	21.17
	15	-30.48	4.054	.000	-45.07	-15.89

	16	-27.58	4.216	.000	-42.75	-12.41
	17	10.31	4.170	.654	-4.70	25.32
	18	-1.50	4.390	1.000	-17.29	14.30
	19	61.31	3.684	.000	48.04	74.58
	20	58.87	3.683	.000	45.60	72.13
	21	-65.62	4.820	.000	-82.96	-48.28
	22	-54.59	4.945	.000	-72.39	-36.80
14	1	-70.86	5.394	.000	-90.28	-51.44
	2	-50.89	5.528	.000	-70.79	-30.99
	3	-62.69	4.843	.000	-80.13	-45.24
	4	-54.05	5.013	.000	-72.10	-36.00
	5	-119.31	6.476	.000	-142.63	-95.99
	6	-101.80	6.576	.000	-125.49	-78.10
	7	-12.45	4.745	.534	-29.54	4.64
	8	-3.33	4.796	1.000	-20.60	13.94
	9	36.28	4.454	.000	20.23	52.33
	10	33.85	4.432	.000	17.87	49.83
	11	25.78	4.543	.000	9.41	42.15
	12	24.81	4.654	.000	8.04	41.58
	13	-2.09	5.299	1.000	-21.17	16.99
	15	-32.57	4.517	.000	-48.85	-16.29
	16	-29.67	4.663	.000	-46.47	-12.87
	17	8.22	4.622	.978	-8.43	24.87
	18	-3.59	4.821	1.000	-20.96	13.78
	19	59.22	4.188	.000	44.11	74.32
	20	56.78	4.188	.000	41.67	71.88
	21	-67.71	5.216	.000	-86.49	-48.94
	22	-56.68	5.332	.000	-75.88	-37.49
15	1	-38.29	4.177	.000	-53.32	-23.26
	2	-18.32	4.349	.005	-33.97	-2.66
	3	-30.11	3.437	.000	-42.47	-17.76
	4	-21.48	3.672	.000	-34.69	-8.27
	5	-86.74	5.504	.000	-106.57	-66.91
	6	-69.23	5.622	.000	-89.51	-48.95
	7	20.12	3.297	.000	8.27	31.97
	8	29.24	3.370	.000	17.12	41.36
	9	68.85	2.862	.000	58.56	79.14
	10	66.42	2.828	.000	56.25	76.59
	11	58.35	3.000	.000	47.57	69.14
	12	57.38	3.165	.000	46.00	68.77
	13	30.48	4.054	.000	15.89	45.07
	14	32.57	4.517	.000	16.29	48.85
	16	2.90	3.178	1.000	-8.53	14.32
	17	40.79	3.117	.000	29.58	52.00
	18	28.98	3.406	.000	16.73	41.23
	19	91.79	2.428	.000	83.06	100.51
	20	89.35	2.427	.000	80.62	98.07
	21	-35.14	3.944	.000	-49.33	-20.95
	22	-24.11	4.097	.000	-38.86	-9.37
16	1	-41.19	4.334	.000	-56.78	-25.59
	2	-21.21	4.500	.001	-37.41	-5.02
	3	-33.01	3.626	.000	-46.05	-19.97
	4	-24.38	3.850	.000	-38.22	-10.53
	5	-89.64	5.624	.000	-109.90	-69.37
	6	-72.13	5.739	.000	-92.82	-51.43
	7	17.22	3.493	.000	4.66	29.78
	8	26.34	3.562	.000	13.53	39.16

	9	65.95	3.087	.000	54.85	77.05
	10	63.53	3.056	.000	52.54	74.51
	11	55.46	3.215	.000	43.90	67.01
	12	54.49	3.370	.000	42.36	66.61
	13	27.58	4.216	.000	12.41	42.75
	14	29.67	4.663	.000	12.87	46.47
	15	-2.90	3.178	1.000	-14.32	8.53
	17	37.89	3.325	.000	25.94	49.85
	18	26.08	3.597	.000	13.15	39.02
	19	88.89	2.689	.000	79.22	98.56
	20	86.45	2.689	.000	76.78	96.12
	21	-38.04	4.110	.000	-52.83	-23.26
	22	-27.01	4.257	.000	-42.33	-11.69
17	1	-79.08	4.290	.000	-94.51	-63.65
	2	-59.11	4.458	.000	-75.15	-43.06
	3	-70.90	3.573	.000	-83.75	-58.06
	4	-62.27	3.800	.000	-75.94	-48.60
	5	-127.53	5.590	.000	-147.67	-107.39
	6	-110.02	5.706	.000	-130.60	-89.44
	7	-20.67	3.438	.000	-33.03	-8.31
	8	-11.55	3.509	.126	-24.17	1.07
	9	28.06	3.025	.000	17.19	38.94
	10	25.63	2.993	.000	14.87	36.39
	11	17.56	3.155	.000	6.22	28.91
	12	16.59	3.313	.000	4.68	28.51
	13	-10.31	4.170	.654	-25.32	4.70
	14	-8.22	4.622	.978	-24.87	8.43
	15	-40.79	3.117	.000	-52.00	-29.58
	16	-37.89	3.325	.000	-49.85	-25.94
	18	-11.81	3.543	.112	-24.55	.93
	19	51.00	2.617	.000	41.59	60.41
	20	48.56	2.617	.000	39.15	57.97
	21	-75.93	4.064	.000	-90.55	-61.32
	22	-64.90	4.212	.000	-80.06	-49.75
18	1	-67.27	4.504	.000	-83.47	-51.07
	2	-47.30	4.664	.000	-64.08	-30.51
	3	-59.10	3.828	.000	-72.86	-45.33
	4	-50.46	4.040	.000	-64.99	-35.93
	5	-115.72	5.756	.000	-136.45	-94.99
	6	-98.21	5.869	.000	-119.37	-77.05
	7	-8.86	3.702	.713	-22.18	4.45
	8	.26	3.767	1.000	-13.29	13.81
	9	39.87	3.321	.000	27.93	51.82
	10	37.44	3.292	.000	25.60	49.28
	11	29.37	3.440	.000	17.00	41.74
	12	28.40	3.586	.000	15.50	41.30
	13	1.50	4.390	1.000	-14.30	17.29
	14	3.59	4.821	1.000	-13.78	20.96
	15	-28.98	3.406	.000	-41.23	-16.73
	16	-26.08	3.597	.000	-39.02	-13.15
	17	11.81	3.543	.112	-.93	24.55
	19	62.81	2.955	.000	52.17	73.44
	20	60.37	2.955	.000	49.74	71.00
	21	-64.12	4.289	.000	-79.55	-48.70
	22	-53.09	4.430	.000	-69.03	-37.15
19	1	-130.08	3.818	.000	-143.82	-116.33
	2	-110.10	4.006	.000	-124.53	-95.67

	3	-121.90	2.991	.000	-132.66	-111.14
	4	-113.27	3.258	.000	-124.99	-101.54
	5	-178.53	5.237	.000	-197.41	-159.64
	6	-161.02	5.361	.000	-180.37	-141.66
	7	-71.67	2.828	.000	-81.84	-61.49
	8	-62.55	2.913	.000	-73.03	-52.06
	9	-22.94	2.308	.000	-31.23	-14.64
	10	-25.36	2.265	.000	-33.51	-17.22
	11	-33.43	2.476	.000	-42.34	-24.53
	12	-34.40	2.674	.000	-44.03	-24.78
	13	-61.31	3.684	.000	-74.58	-48.04
	14	-59.22	4.188	.000	-74.32	-44.11
	15	-91.79	2.428	.000	-100.51	-83.06
	16	-88.89	2.689	.000	-98.56	-79.22
	17	-51.00	2.617	.000	-60.41	-41.59
	18	-62.81	2.955	.000	-73.44	-52.17
	20	-2.44	1.739	.999	-8.69	3.81
	21	-126.93	3.562	.000	-139.75	-114.11
	22	-115.90	3.730	.000	-129.34	-102.46
20	1	-127.64	3.818	.000	-141.38	-113.89
	2	-107.66	4.006	.000	-122.09	-93.24
	3	-119.46	2.991	.000	-130.22	-108.71
	4	-110.83	3.258	.000	-122.55	-99.10
	5	-176.09	5.237	.000	-194.97	-157.20
	6	-158.57	5.360	.000	-177.93	-139.22
	7	-69.23	2.828	.000	-79.40	-59.06
	8	-60.11	2.913	.000	-70.59	-49.62
	9	-20.50	2.307	.000	-28.79	-12.20
	10	-22.92	2.265	.000	-31.07	-14.78
	11	-30.99	2.476	.000	-39.90	-22.09
	12	-31.96	2.674	.000	-41.59	-22.34
	13	-58.87	3.683	.000	-72.13	-45.60
	14	-56.78	4.188	.000	-71.88	-41.67
	15	-89.35	2.427	.000	-98.07	-80.62
	16	-86.45	2.689	.000	-96.12	-76.78
	17	-48.56	2.617	.000	-57.97	-39.15
	18	-60.37	2.955	.000	-71.00	-49.74
	19	2.44	1.739	.999	-3.81	8.69
	21	-124.49	3.562	.000	-137.31	-111.67
	22	-113.46	3.730	.000	-126.90	-100.02
21	1	-3.15	4.924	1.000	-20.86	14.56
	2	16.83	5.071	.118	-1.42	35.07
	3	5.03	4.314	1.000	-10.49	20.54
	4	13.66	4.503	.244	-2.54	29.86
	5	-51.60	6.090	.000	-73.53	-29.67
	6	-34.09	6.197	.000	-56.42	-11.76
	7	55.26	4.203	.000	40.15	70.38
	8	64.38	4.260	.000	49.06	79.71
	9	103.99	3.872	.000	90.07	117.92
	10	101.57	3.847	.000	87.73	115.40
	11	93.50	3.974	.000	79.20	107.79
	12	92.53	4.101	.000	77.77	107.28
	13	65.62	4.820	.000	48.28	82.96
	14	67.71	5.216	.000	48.94	86.49
	15	35.14	3.944	.000	20.95	49.33
	16	38.04	4.110	.000	23.26	52.83
	17	75.93	4.064	.000	61.32	90.55

		18	64.12	4.289	.000	48.70	79.55
		19	126.93	3.562	.000	114.11	139.75
		20	124.49	3.562	.000	111.67	137.31
		22	11.03	4.856	.797	-6.44	28.50
	22	1	-14.18	5.047	.391	-32.33	3.98
		2	5.80	5.190	1.000	-12.88	24.47
		3	-6.00	4.454	.999	-22.03	10.02
		4	2.63	4.637	1.000	-14.05	19.32
		5	-62.63	6.190	.000	-84.91	-40.34
		6	-45.11	6.295	.000	-67.80	-22.43
		7	44.23	4.346	.000	28.59	59.87
		8	53.35	4.402	.000	37.51	69.20
		9	92.96	4.027	.000	78.47	107.46
		10	90.54	4.003	.000	76.13	104.95
		11	82.47	4.125	.000	67.62	97.31
		12	81.50	4.248	.000	66.21	96.78
		13	54.59	4.945	.000	36.80	72.39
		14	56.68	5.332	.000	37.49	75.88
		15	24.11	4.097	.000	9.37	38.86
		16	27.01	4.257	.000	11.69	42.33
		17	64.90	4.212	.000	49.75	80.06
		18	53.09	4.430	.000	37.15	69.03
		19	115.90	3.730	.000	102.46	129.34
		20	113.46	3.730	.000	100.02	126.90
		21	-11.03	4.856	.797	-28.50	6.44
Y3	1	2	39.16	3.264	.000	27.42	50.91
		3	2.27	3.383	1.000	-9.89	14.44
		4	37.39	3.056	.000	26.39	48.39
		5	-11.53	4.427	.550	-27.46	4.41
		6	31.06	3.580	.000	18.18	43.95
		7	24.90	3.456	.000	12.47	37.33
		8	50.69	3.096	.000	39.55	61.83
		9	72.58	3.250	.000	60.89	84.27
		10	77.54	2.923	.000	67.02	88.06
		11	51.87	3.386	.000	39.69	64.05
		12	62.99	3.108	.000	51.81	74.17
		13	37.17	4.152	.000	22.23	52.11
		14	57.98	3.656	.000	44.82	71.14
		15	19.56	3.182	.000	8.11	31.00
		16	43.88	2.948	.000	33.28	54.49
		17	40.18	3.380	.000	28.02	52.34
		18	53.76	3.101	.000	42.61	64.92
		19	79.00	2.950	.000	68.38	89.61
		20	83.68	2.785	.000	73.66	93.70
		21	8.34	3.720	.815	-5.04	21.72
		22	38.01	3.254	.000	26.31	49.72
	2	1	-39.16	3.264	.000	-50.91	-27.42
		3	-36.89	2.881	.000	-47.25	-26.53
		4	-1.77	2.490	1.000	-10.73	7.19
		5	-50.69	4.056	.000	-65.30	-36.08
		6	-8.10	3.110	.550	-19.30	3.10
		7	-14.26	2.967	.000	-24.93	-3.59
		8	11.53	2.538	.001	2.40	20.66
		9	33.42	2.724	.000	23.62	43.22
		10	38.38	2.324	.000	30.02	46.74
		11	12.71	2.885	.002	2.33	23.08
		12	23.83	2.552	.000	14.64	33.01

	13	-1.99	3.754	1.000	-15.51	11.52
	14	18.82	3.198	.000	7.31	30.34
	15	-19.60	2.642	.000	-29.11	-10.10
	16	4.72	2.355	.926	-3.75	13.19
	17	1.02	2.878	1.000	-9.33	11.37
	18	14.60	2.544	.000	5.45	23.75
	19	39.83	2.357	.000	31.35	48.32
	20	44.52	2.148	.000	36.79	52.25
	21	-30.82	3.270	.000	-42.59	-19.06
	22	-1.15	2.729	1.000	-10.97	8.67
3	1	-2.27	3.383	1.000	-14.44	9.89
	2	36.89	2.881	.000	26.53	47.25
	4	35.12	2.643	.000	25.61	44.62
	5	-13.80	4.152	.116	-28.75	1.15
	6	28.79	3.234	.000	17.15	40.43
	7	22.63	3.097	.000	11.49	33.76
	8	48.42	2.689	.000	38.75	58.08
	9	70.31	2.865	.000	60.01	80.61
	10	75.27	2.488	.000	66.32	84.21
	11	49.60	3.018	.000	38.75	60.45
	12	60.72	2.702	.000	51.00	70.43
	13	34.90	3.858	.000	21.01	48.78
	14	55.71	3.319	.000	43.76	67.66
	15	17.28	2.787	.000	7.26	27.31
	16	41.61	2.516	.000	32.56	50.66
	17	37.91	3.012	.000	27.08	48.73
	18	51.49	2.694	.000	41.80	61.18
	19	76.72	2.519	.000	67.67	85.78
	20	81.41	2.324	.000	73.05	89.76
	21	6.07	3.388	.977	-6.12	18.25
	22	35.74	2.869	.000	25.42	46.06
4	1	-37.39	3.056	.000	-48.39	-26.39
	2	1.77	2.490	1.000	-7.19	10.73
	3	-35.12	2.643	.000	-44.62	-25.61
	5	-48.92	3.890	.000	-62.94	-34.90
	6	-6.33	2.890	.844	-16.74	4.09
	7	-12.49	2.736	.001	-22.33	-2.65
	8	13.30	2.264	.000	5.15	21.44
	9	35.19	2.471	.000	26.31	44.08
	10	40.15	2.021	.000	32.88	47.42
	11	14.48	2.647	.000	4.96	24.00
	12	25.60	2.280	.000	17.40	33.80
	13	-.22	3.575	1.000	-13.09	12.65
	14	20.59	2.985	.000	9.84	31.35
	15	-17.83	2.380	.000	-26.39	-9.27
	16	6.49	2.057	.181	-.90	13.89
	17	2.79	2.640	1.000	-6.70	12.28
	18	16.37	2.271	.000	8.20	24.54
	19	41.61	2.060	.000	34.20	49.01
	20	46.29	1.816	.000	39.76	52.82
	21	-29.05	3.063	.000	-40.07	-18.03
	22	.62	2.476	1.000	-8.29	9.53
5	1	11.53	4.427	.550	-4.41	27.46
	2	50.69	4.056	.000	36.08	65.30
	3	13.80	4.152	.116	-1.15	28.75
	4	48.92	3.890	.000	34.90	62.94
	6	42.59	4.314	.000	27.05	58.13

	7	36.43	4.212	.000	21.26	51.60
	8	62.22	3.922	.000	48.09	76.35
	9	84.11	4.045	.000	69.54	98.68
	10	89.07	3.787	.000	75.42	102.72
	11	63.40	4.155	.000	48.44	78.36
	12	74.52	3.931	.000	60.35	88.68
	13	48.70	4.799	.000	31.42	65.97
	14	69.51	4.378	.000	53.75	85.28
	15	31.09	3.990	.000	16.71	45.46
	16	55.41	3.806	.000	41.69	69.13
	17	51.71	4.150	.000	36.76	66.65
	18	65.29	3.925	.000	51.15	79.43
	19	90.52	3.807	.000	76.80	104.24
	20	95.21	3.681	.000	81.93	108.48
	21	19.87	4.431	.002	3.92	35.82
	22	49.54	4.048	.000	34.96	64.12
6	1	-31.06	3.580	.000	-43.95	-18.18
	2	8.10	3.110	.550	-3.10	19.30
	3	-28.79	3.234	.000	-40.43	-17.15
	4	6.33	2.890	.844	-4.09	16.74
	5	-42.59	4.314	.000	-58.13	-27.05
	7	-6.16	3.310	.964	-18.08	5.76
	8	19.63	2.932	.000	9.06	30.19
	9	41.52	3.095	.000	30.38	52.66
	10	46.48	2.749	.000	36.57	56.39
	11	20.81	3.237	.000	9.15	32.46
	12	31.93	2.944	.000	21.32	42.53
	13	6.11	4.031	.997	-8.41	20.62
	14	26.92	3.519	.000	14.25	39.60
	15	-11.50	3.023	.025	-22.39	-.62
	16	12.82	2.775	.001	2.82	22.82
	17	9.12	3.231	.382	-2.51	20.75
	18	22.70	2.937	.000	12.12	33.28
	19	47.93	2.777	.000	37.92	57.94
	20	52.62	2.602	.000	43.23	62.00
	21	-22.72	3.585	.000	-35.62	-9.82
	22	6.95	3.099	.813	-4.21	18.11
7	1	-24.90	3.456	.000	-37.33	-12.47
	2	14.26	2.967	.000	3.59	24.93
	3	-22.63	3.097	.000	-33.76	-11.49
	4	12.49	2.736	.001	2.65	22.33
	5	-36.43	4.212	.000	-51.60	-21.26
	6	6.16	3.310	.964	-5.76	18.08
	8	25.79	2.780	.000	15.79	35.79
	9	47.68	2.951	.000	37.07	58.29
	10	52.64	2.586	.000	43.34	61.94
	11	26.97	3.100	.000	15.82	38.12
	12	38.09	2.793	.000	28.04	48.13
	13	12.27	3.922	.195	-1.85	26.38
	14	33.08	3.393	.000	20.87	45.30
	15	-5.34	2.876	.965	-15.68	5.00
	16	18.98	2.614	.000	9.58	28.38
	17	15.28	3.094	.000	4.15	26.40
	18	28.86	2.786	.000	18.84	38.88
	19	54.09	2.617	.000	44.68	63.50
	20	58.78	2.429	.000	50.04	67.52
	21	-16.56	3.462	.000	-29.01	-4.11

	22	13.11	2.955	.002	2.48	23.74
8	1	-50.69	3.096	.000	-61.83	-39.55
	2	-11.53	2.538	.001	-20.66	-2.40
	3	-48.42	2.689	.000	-58.08	-38.75
	4	-13.30	2.264	.000	-21.44	-5.15
	5	-62.22	3.922	.000	-76.35	-48.09
	6	-19.63	2.932	.000	-30.19	-9.06
	7	-25.79	2.780	.000	-35.79	-15.79
	9	21.89	2.520	.000	12.83	30.95
	10	26.85	2.081	.000	19.37	34.34
	11	1.18	2.693	1.000	-8.50	10.86
	12	12.30	2.333	.000	3.91	20.69
	13	-13.52	3.609	.031	-26.51	-.53
	14	7.30	3.026	.700	-3.60	18.20
	15	-31.13	2.431	.000	-39.87	-22.39
	16	-6.81	2.115	.154	-14.41	.80
	17	-10.51	2.685	.016	-20.17	-.85
	18	3.07	2.324	1.000	-5.28	11.43
	19	28.31	2.118	.000	20.69	35.92
	20	32.99	1.882	.000	26.22	39.76
	21	-42.35	3.102	.000	-53.51	-31.19
	22	-12.67	2.525	.000	-21.76	-3.59
9	1	-72.58	3.250	.000	-84.27	-60.89
	2	-33.42	2.724	.000	-43.22	-23.62
	3	-70.31	2.865	.000	-80.61	-60.01
	4	-35.19	2.471	.000	-44.08	-26.31
	5	-84.11	4.045	.000	-98.68	-69.54
	6	-41.52	3.095	.000	-52.66	-30.38
	7	-47.68	2.951	.000	-58.29	-37.07
	8	-21.89	2.520	.000	-30.95	-12.83
	10	4.96	2.304	.864	-3.32	13.24
	11	-20.71	2.869	.000	-31.03	-10.40
	12	-9.59	2.534	.026	-18.70	-.48
	13	-35.41	3.742	.000	-48.88	-21.94
	14	-14.60	3.183	.001	-26.06	-3.14
	15	-53.02	2.624	.000	-62.46	-43.59
	16	-28.70	2.335	.000	-37.09	-20.30
	17	-32.40	2.862	.000	-42.69	-22.11
	18	-18.82	2.525	.000	-27.90	-9.74
	19	6.41	2.338	.440	-1.99	14.82
	20	11.10	2.126	.000	3.45	18.74
	21	-64.24	3.256	.000	-75.95	-52.53
	22	-34.57	2.712	.000	-44.32	-24.82
10	1	-77.54	2.923	.000	-88.06	-67.02
	2	-38.38	2.324	.000	-46.74	-30.02
	3	-75.27	2.488	.000	-84.21	-66.32
	4	-40.15	2.021	.000	-47.42	-32.88
	5	-89.07	3.787	.000	-102.72	-75.42
	6	-46.48	2.749	.000	-56.39	-36.57
	7	-52.64	2.586	.000	-61.94	-43.34
	8	-26.85	2.081	.000	-34.34	-19.37
	9	-4.96	2.304	.864	-13.24	3.32
	11	-25.67	2.492	.000	-34.63	-16.71
	12	-14.55	2.098	.000	-22.10	-7.01
	13	-40.37	3.462	.000	-52.84	-27.91
	14	-19.56	2.848	.000	-29.82	-9.29
	15	-57.98	2.206	.000	-65.92	-50.05

	16	-33.66	1.853	.000	-40.32	-27.00
	17	-37.36	2.484	.000	-46.30	-28.43
	18	-23.78	2.088	.000	-31.29	-16.27
	19	1.45	1.856	1.000	-5.22	8.13
	20	6.14	1.581	.018	.45	11.82
	21	-69.20	2.929	.000	-79.74	-58.66
	22	-39.53	2.309	.000	-47.84	-31.22
11	1	-51.87	3.386	.000	-64.05	-39.69
	2	-12.71	2.885	.002	-23.08	-2.33
	3	-49.60	3.018	.000	-60.45	-38.75
	4	-14.48	2.647	.000	-24.00	-4.96
	5	-63.40	4.155	.000	-78.36	-48.44
	6	-20.81	3.237	.000	-32.46	-9.15
	7	-26.97	3.100	.000	-38.12	-15.82
	8	-1.18	2.693	1.000	-10.86	8.50
	9	20.71	2.869	.000	10.40	31.03
	10	25.67	2.492	.000	16.71	34.63
	12	11.12	2.706	.008	1.39	20.85
	13	-14.70	3.861	.024	-28.59	-.81
	14	6.11	3.322	.968	-5.84	18.07
	15	-32.31	2.791	.000	-42.35	-22.28
	16	-7.99	2.521	.175	-17.05	1.08
	17	-11.69	3.015	.019	-22.53	-.85
	18	1.89	2.698	1.000	-7.81	11.59
	19	27.13	2.523	.000	18.05	36.20
	20	31.81	2.328	.000	23.43	40.18
	21	-43.53	3.392	.000	-55.73	-31.33
	22	-13.86	2.873	.000	-24.19	-3.52
12	1	-62.99	3.108	.000	-74.17	-51.81
	2	-23.83	2.552	.000	-33.01	-14.64
	3	-60.72	2.702	.000	-70.43	-51.00
	4	-25.60	2.280	.000	-33.80	-17.40
	5	-74.52	3.931	.000	-88.68	-60.35
	6	-31.93	2.944	.000	-42.53	-21.32
	7	-38.09	2.793	.000	-48.13	-28.04
	8	-12.30	2.333	.000	-20.69	-3.91
	9	9.59	2.534	.026	.48	18.70
	10	14.55	2.098	.000	7.01	22.10
	11	-11.12	2.706	.008	-20.85	-1.39
	13	-25.82	3.619	.000	-38.85	-12.79
	14	-5.00	3.038	.991	-15.95	5.94
	15	-43.43	2.446	.000	-52.22	-34.64
	16	-19.11	2.132	.000	-26.77	-11.44
	17	-22.81	2.699	.000	-32.51	-13.11
	18	-9.23	2.339	.015	-17.64	-.81
	19	16.01	2.135	.000	8.33	23.68
	20	20.69	1.901	.000	13.85	27.53
	21	-54.65	3.114	.000	-65.85	-43.45
	22	-24.97	2.539	.000	-34.11	-15.84
13	1	-37.17	4.152	.000	-52.11	-22.23
	2	1.99	3.754	1.000	-11.52	15.51
	3	-34.90	3.858	.000	-48.78	-21.01
	4	.22	3.575	1.000	-12.65	13.09
	5	-48.70	4.799	.000	-65.97	-31.42
	6	-6.11	4.031	.997	-20.62	8.41
	7	-12.27	3.922	.195	-26.38	1.85
	8	13.52	3.609	.031	.53	26.51

	9	35.41	3.742	.000	21.94	48.88
	10	40.37	3.462	.000	27.91	52.84
	11	14.70	3.861	.024	.81	28.59
	12	25.82	3.619	.000	12.79	38.85
	14	20.81	4.100	.000	6.06	35.57
	15	-17.61	3.683	.000	-30.87	-4.36
	16	6.71	3.482	.949	-5.83	19.25
	17	3.01	3.855	1.000	-10.87	16.88
	18	16.59	3.613	.001	3.59	29.60
	19	41.83	3.484	.000	29.28	54.37
	20	46.51	3.346	.000	34.46	58.56
	21	-28.83	4.156	.000	-43.78	-13.87
	22	.84	3.745	1.000	-12.64	14.33
14	1	-57.98	3.656	.000	-71.14	-44.82
	2	-18.82	3.198	.000	-30.34	-7.31
	3	-55.71	3.319	.000	-67.66	-43.76
	4	-20.59	2.985	.000	-31.35	-9.84
	5	-69.51	4.378	.000	-85.28	-53.75
	6	-26.92	3.519	.000	-39.60	-14.25
	7	-33.08	3.393	.000	-45.30	-20.87
	8	-7.30	3.026	.700	-18.20	3.60
	9	14.60	3.183	.001	3.14	26.06
	10	19.56	2.848	.000	9.29	29.82
	11	-6.11	3.322	.968	-18.07	5.84
	12	5.00	3.038	.991	-5.94	15.95
	13	-20.81	4.100	.000	-35.57	-6.06
	15	-38.43	3.113	.000	-49.64	-27.21
	16	-14.10	2.874	.000	-24.46	-3.75
	17	-17.81	3.316	.000	-29.74	-5.87
	18	-4.22	3.030	.999	-15.14	6.69
	19	21.01	2.876	.000	10.65	31.38
	20	25.70	2.707	.000	15.93	35.46
	21	-49.64	3.662	.000	-62.82	-36.47
	22	-19.97	3.187	.000	-31.45	-8.49
15	1	-19.56	3.182	.000	-31.00	-8.11
	2	19.60	2.642	.000	10.10	29.11
	3	-17.28	2.787	.000	-27.31	-7.26
	4	17.83	2.380	.000	9.27	26.39
	5	-31.09	3.990	.000	-45.46	-16.71
	6	11.50	3.023	.025	.62	22.39
	7	5.34	2.876	.965	-5.00	15.68
	8	31.13	2.431	.000	22.39	39.87
	9	53.02	2.624	.000	43.59	62.46
	10	57.98	2.206	.000	50.05	65.92
	11	32.31	2.791	.000	22.28	42.35
	12	43.43	2.446	.000	34.64	52.22
	13	17.61	3.683	.000	4.36	30.87
	14	38.43	3.113	.000	27.21	49.64
	16	24.32	2.239	.000	16.28	32.37
	17	20.62	2.784	.000	10.61	30.63
	18	34.20	2.437	.000	25.44	42.97
	19	59.44	2.242	.000	51.38	67.50
	20	64.12	2.020	.000	56.86	71.38
	21	-11.22	3.188	.064	-22.68	.25
	22	18.46	2.629	.000	9.00	27.91
16	1	-43.88	2.948	.000	-54.49	-33.28
	2	-4.72	2.355	.926	-13.19	3.75

	3	-41.61	2.516	.000	-50.66	-32.56
	4	-6.49	2.057	.181	-13.89	.90
	5	-55.41	3.806	.000	-69.13	-41.69
	6	-12.82	2.775	.001	-22.82	-2.82
	7	-18.98	2.614	.000	-28.38	-9.58
	8	6.81	2.115	.154	-.80	14.41
	9	28.70	2.335	.000	20.30	37.09
	10	33.66	1.853	.000	27.00	40.32
	11	7.99	2.521	.175	-1.08	17.05
	12	19.11	2.132	.000	11.44	26.77
	13	-6.71	3.482	.949	-19.25	5.83
	14	14.10	2.874	.000	3.75	24.46
	15	-24.32	2.239	.000	-32.37	-16.28
	17	-3.70	2.513	.998	-12.74	5.33
	18	9.88	2.122	.001	2.25	17.51
	19	35.11	1.894	.000	28.30	41.92
	20	39.80	1.626	.000	33.95	45.64
	21	-35.54	2.954	.000	-46.17	-24.91
	22	-5.87	2.340	.626	-14.29	2.55
17	1	-40.18	3.380	.000	-52.34	-28.02
	2	-1.02	2.878	1.000	-11.37	9.33
	3	-37.91	3.012	.000	-48.73	-27.08
	4	-2.79	2.640	1.000	-12.28	6.70
	5	-51.71	4.150	.000	-66.65	-36.76
	6	-9.12	3.231	.382	-20.75	2.51
	7	-15.28	3.094	.000	-26.40	-4.15
	8	10.51	2.685	.016	.85	20.17
	9	32.40	2.862	.000	22.11	42.69
	10	37.36	2.484	.000	28.43	46.30
	11	11.69	3.015	.019	.85	22.53
	12	22.81	2.699	.000	13.11	32.51
	13	-3.01	3.855	1.000	-16.88	10.87
	14	17.81	3.316	.000	5.87	29.74
	15	-20.62	2.784	.000	-30.63	-10.61
	16	3.70	2.513	.998	-5.33	12.74
	18	13.58	2.691	.000	3.91	23.26
	19	38.82	2.515	.000	29.77	47.86
	20	43.50	2.320	.000	35.16	51.84
	21	-31.84	3.386	.000	-44.02	-19.66
	22	-2.16	2.866	1.000	-12.47	8.14
18	1	-53.76	3.101	.000	-64.92	-42.61
	2	-14.60	2.544	.000	-23.75	-5.45
	3	-51.49	2.694	.000	-61.18	-41.80
	4	-16.37	2.271	.000	-24.54	-8.20
	5	-65.29	3.925	.000	-79.43	-51.15
	6	-22.70	2.937	.000	-33.28	-12.12
	7	-28.86	2.786	.000	-38.88	-18.84
	8	-3.07	2.324	1.000	-11.43	5.28
	9	18.82	2.525	.000	9.74	27.90
	10	23.78	2.088	.000	16.27	31.29
	11	-1.89	2.698	1.000	-11.59	7.81
	12	9.23	2.339	.015	.81	17.64
	13	-16.59	3.613	.001	-29.60	-3.59
	14	4.22	3.030	.999	-6.69	15.14
	15	-34.20	2.437	.000	-42.97	-25.44
	16	-9.88	2.122	.001	-17.51	-2.25
	17	-13.58	2.691	.000	-23.26	-3.91

	19	25.23	2.125	.000	17.59	32.87
	20	29.92	1.889	.000	23.12	36.71
	21	-45.42	3.107	.000	-56.60	-34.25
	22	-15.75	2.530	.000	-24.85	-6.64
19	1	-79.00	2.950	.000	-89.61	-68.38
	2	-39.83	2.357	.000	-48.32	-31.35
	3	-76.72	2.519	.000	-85.78	-67.67
	4	-41.61	2.060	.000	-49.01	-34.20
	5	-90.52	3.807	.000	-104.24	-76.80
	6	-47.93	2.777	.000	-57.94	-37.92
	7	-54.09	2.617	.000	-63.50	-44.68
	8	-28.31	2.118	.000	-35.92	-20.69
	9	-6.41	2.338	.440	-14.82	1.99
	10	-1.45	1.856	1.000	-8.13	5.22
	11	-27.13	2.523	.000	-36.20	-18.05
	12	-16.01	2.135	.000	-23.68	-8.33
	13	-41.83	3.484	.000	-54.37	-29.28
	14	-21.01	2.876	.000	-31.38	-10.65
	15	-59.44	2.242	.000	-67.50	-51.38
	16	-35.11	1.894	.000	-41.92	-28.30
	17	-38.82	2.515	.000	-47.86	-29.77
	18	-25.23	2.125	.000	-32.87	-17.59
	20	4.68	1.630	.345	-1.17	10.54
	21	-70.66	2.956	.000	-81.29	-60.02
	22	-40.98	2.343	.000	-49.41	-32.55
20	1	-83.68	2.785	.000	-93.70	-73.66
	2	-44.52	2.148	.000	-52.25	-36.79
	3	-81.41	2.324	.000	-89.76	-73.05
	4	-46.29	1.816	.000	-52.82	-39.76
	5	-95.21	3.681	.000	-108.48	-81.93
	6	-52.62	2.602	.000	-62.00	-43.23
	7	-58.78	2.429	.000	-67.52	-50.04
	8	-32.99	1.882	.000	-39.76	-26.22
	9	-11.10	2.126	.000	-18.74	-3.45
	10	-6.14	1.581	.018	-11.82	-4.45
	11	-31.81	2.328	.000	-40.18	-23.43
	12	-20.69	1.901	.000	-27.53	-13.85
	13	-46.51	3.346	.000	-58.56	-34.46
	14	-25.70	2.707	.000	-35.46	-15.93
	15	-64.12	2.020	.000	-71.38	-56.86
	16	-39.80	1.626	.000	-45.64	-33.95
	17	-43.50	2.320	.000	-51.84	-35.16
	18	-29.92	1.889	.000	-36.71	-23.12
	19	-4.68	1.630	.345	-10.54	1.17
	21	-75.34	2.792	.000	-85.39	-65.29
	22	-45.67	2.132	.000	-53.34	-37.99
21	1	-8.34	3.720	.815	-21.72	5.04
	2	30.82	3.270	.000	19.06	42.59
	3	-6.07	3.388	.977	-18.25	6.12
	4	29.05	3.063	.000	18.03	40.07
	5	-19.87	4.431	.002	-35.82	-3.92
	6	22.72	3.585	.000	9.82	35.62
	7	16.56	3.462	.000	4.11	29.01
	8	42.35	3.102	.000	31.19	53.51
	9	64.24	3.256	.000	52.53	75.95
	10	69.20	2.929	.000	58.66	79.74
	11	43.53	3.392	.000	31.33	55.73

		12	54.65	3.114	.000	43.45	65.85
		13	28.83	4.156	.000	13.87	43.78
		14	49.64	3.662	.000	36.47	62.82
		15	11.22	3.188	.064	-.25	22.68
		16	35.54	2.954	.000	24.91	46.17
		17	31.84	3.386	.000	19.66	44.02
		18	45.42	3.107	.000	34.25	56.60
		19	70.66	2.956	.000	60.02	81.29
		20	75.34	2.792	.000	65.29	85.39
		22	29.67	3.260	.000	17.95	41.40
22		1	-38.01	3.254	.000	-49.72	-26.31
		2	1.15	2.729	1.000	-8.67	10.97
		3	-35.74	2.869	.000	-46.06	-25.42
		4	-.62	2.476	1.000	-9.53	8.29
		5	-49.54	4.048	.000	-64.12	-34.96
		6	-6.95	3.099	.813	-18.11	4.21
		7	-13.11	2.955	.002	-23.74	-2.48
		8	12.67	2.525	.000	3.59	21.76
		9	34.57	2.712	.000	24.82	44.32
		10	39.53	2.309	.000	31.22	47.84
		11	13.86	2.873	.000	3.52	24.19
		12	24.97	2.539	.000	15.84	34.11
		13	-.84	3.745	1.000	-14.33	12.64
		14	19.97	3.187	.000	8.49	31.45
		15	-18.46	2.629	.000	-27.91	-9.00
		16	5.87	2.340	.626	-2.55	14.29
		17	2.16	2.866	1.000	-8.14	12.47
		18	15.75	2.530	.000	6.64	24.85
		19	40.98	2.343	.000	32.55	49.41
		20	45.67	2.132	.000	37.99	53.34
		21	-29.67	3.260	.000	-41.40	-17.95
Y4	1	2	34.01	4.160	.000	19.05	48.98
		3	15.05	3.503	.004	2.45	27.65
		4	36.72	3.765	.000	23.18	50.26
		5	-12.44	4.636	.487	-29.14	4.25
		6	8.87	5.009	.979	-9.18	26.92
		7	45.68	3.578	.000	32.81	58.55
		8	62.96	3.662	.000	49.79	76.13
		9	101.61	3.332	.000	89.62	113.59
		10	110.93	3.275	.000	99.14	122.71
		11	82.05	3.420	.000	69.75	94.35
		12	87.74	3.492	.000	75.18	100.30
		13	59.36	4.300	.000	43.89	74.83
		14	71.57	4.747	.000	54.47	88.67
		15	40.88	3.274	.000	29.10	52.66
		16	54.88	3.458	.000	42.44	67.32
		17	62.86	3.510	.000	50.23	75.48
		18	63.84	3.673	.000	50.63	77.05
		19	118.64	3.028	.000	107.74	129.53
		20	125.28	3.017	.000	114.42	136.13
		21	15.45	3.864	.012	1.56	29.35
		22	40.71	4.098	.000	25.96	55.45
	2	1	-34.01	4.160	.000	-48.98	-19.05
		3	-18.97	3.845	.000	-32.80	-5.13
		4	2.71	4.084	1.000	-11.99	17.40
		5	-46.46	4.899	.000	-64.09	-28.82
		6	-25.15	5.253	.000	-44.07	-6.22

	7	11.67	3.913	.275	-2.41	25.74
	8	28.94	3.989	.000	14.59	43.30
	9	67.59	3.690	.000	54.31	80.87
	10	76.91	3.638	.000	63.82	90.01
	11	48.03	3.769	.000	34.47	61.60
	12	53.73	3.834	.000	39.93	67.53
	13	25.35	4.583	.000	8.86	41.84
	14	37.55	5.004	.000	19.53	55.58
	15	6.87	3.637	.959	-6.23	19.96
	16	20.87	3.803	.000	7.18	34.55
	17	28.84	3.851	.000	14.99	42.70
	18	29.82	4.000	.000	15.43	44.21
	19	84.62	3.417	.000	72.32	96.93
	20	91.26	3.407	.000	79.00	103.53
	21	-18.56	4.176	.002	-33.58	-3.54
	22	6.69	4.393	.997	-9.12	22.50
3	1	-15.05	3.503	.004	-27.65	-2.45
	2	18.97	3.845	.000	5.13	32.80
	4	21.67	3.414	.000	9.40	33.95
	5	-27.49	4.356	.000	-43.18	-11.80
	6	-6.18	4.750	1.000	-23.31	10.95
	7	30.63	3.206	.000	19.10	42.16
	8	47.91	3.300	.000	36.04	59.77
	9	86.56	2.930	.000	76.02	97.09
	10	95.88	2.865	.000	85.58	106.18
	11	67.00	3.029	.000	56.11	77.89
	12	72.69	3.110	.000	61.51	83.88
	13	44.31	3.996	.000	29.93	58.69
	14	56.52	4.474	.000	40.40	72.64
	15	25.83	2.863	.000	15.54	36.13
	16	39.83	3.072	.000	28.78	50.88
	17	47.81	3.131	.000	36.55	59.07
	18	48.79	3.312	.000	36.88	60.70
	19	103.59	2.578	.000	94.32	112.86
	20	110.23	2.565	.000	101.01	119.45
	21	.40	3.522	1.000	-12.26	13.07
	22	25.66	3.778	.000	12.06	39.25
4	1	-36.72	3.765	.000	-50.26	-23.18
	2	-2.71	4.084	1.000	-17.40	11.99
	3	-21.67	3.414	.000	-33.95	-9.40
	5	-49.17	4.569	.000	-65.62	-32.71
	6	-27.85	4.946	.000	-45.68	-10.03
	7	8.96	3.490	.580	-3.59	21.51
	8	26.23	3.576	.000	13.37	39.10
	9	64.89	3.238	.000	53.24	76.53
	10	74.21	3.179	.000	62.77	85.64
	11	45.33	3.328	.000	33.36	57.30
	12	51.02	3.402	.000	38.78	63.26
	13	22.64	4.227	.000	7.43	37.85
	14	34.85	4.681	.000	17.98	51.71
	15	4.16	3.178	1.000	-7.27	15.59
	16	18.16	3.367	.000	6.05	30.27
	17	26.14	3.421	.000	13.83	38.44
	18	27.12	3.587	.000	14.21	40.02
	19	81.92	2.924	.000	71.40	92.44
	20	88.56	2.912	.000	78.08	99.03
	21	-21.27	3.782	.000	-34.87	-7.66

	22	3.98	4.021	1.000	-10.48	18.45
5	1	12.44	4.636	.487	-4.25	29.14
	2	46.46	4.899	.000	28.82	64.09
	3	27.49	4.356	.000	11.80	43.18
	4	49.17	4.569	.000	32.71	65.62
	6	21.31	5.638	.027	1.00	41.62
	7	58.12	4.416	.000	42.22	74.03
	8	75.40	4.484	.000	59.25	91.55
	9	114.05	4.220	.000	98.85	129.25
	10	123.37	4.175	.000	108.33	138.41
	11	94.49	4.290	.000	79.04	109.94
	12	100.18	4.347	.000	84.53	115.84
	13	71.80	5.019	.000	53.74	89.87
	14	84.01	5.407	.000	64.54	103.48
	15	53.32	4.174	.000	38.29	68.36
	16	67.32	4.320	.000	51.76	82.88
	17	75.30	4.362	.000	59.59	91.01
	18	76.28	4.494	.000	60.10	92.46
	19	131.08	3.984	.000	116.72	145.44
	20	137.72	3.975	.000	123.39	152.05
	21	27.90	4.651	.000	11.15	44.64
	22	53.15	4.847	.000	35.70	70.60
6	1	-8.87	5.009	.979	-26.92	9.18
	2	25.15	5.253	.000	6.22	44.07
	3	6.18	4.750	1.000	-10.95	23.31
	4	27.85	4.946	.000	10.03	45.68
	5	-21.31	5.638	.027	-41.62	-1.00
	7	36.81	4.805	.000	19.49	54.13
	8	54.09	4.868	.000	36.54	71.63
	9	92.74	4.626	.000	76.06	109.42
	10	102.06	4.585	.000	85.52	118.60
	11	73.18	4.689	.000	56.27	90.09
	12	78.87	4.742	.000	61.78	95.97
	13	50.49	5.365	.000	31.17	69.82
	14	62.70	5.729	.000	42.06	83.34
	15	32.01	4.584	.000	15.48	48.54
	16	46.01	4.717	.000	29.00	63.02
	17	53.99	4.755	.000	36.85	71.13
	18	54.97	4.877	.000	37.39	72.54
	19	109.77	4.411	.000	93.85	125.69
	20	116.41	4.404	.000	100.52	132.30
	21	6.58	5.022	1.000	-11.51	24.68
	22	31.84	5.204	.000	13.09	50.59
7	1	-45.68	3.578	.000	-58.55	-32.81
	2	-11.67	3.913	.275	-25.74	2.41
	3	-30.63	3.206	.000	-42.16	-19.10
	4	-8.96	3.490	.580	-21.51	3.59
	5	-58.12	4.416	.000	-74.03	-42.22
	6	-36.81	4.805	.000	-54.13	-19.49
	8	17.28	3.378	.000	5.13	29.43
	9	55.93	3.018	.000	45.07	66.78
	10	65.25	2.955	.000	54.62	75.87
	11	36.37	3.115	.000	25.17	47.57
	12	42.06	3.193	.000	30.58	53.55
	13	13.68	4.062	.102	-.94	28.30
	14	25.89	4.532	.000	9.56	42.22
	15	-4.80	2.954	.993	-15.42	5.82

	16	9.20	3.156	.317	-2.15	20.55
	17	17.18	3.214	.000	5.62	28.73
	18	18.16	3.390	.000	5.96	30.35
	19	72.96	2.678	.000	63.33	82.59
	20	79.60	2.666	.000	70.01	89.19
	21	-30.23	3.596	.000	-43.16	-17.29
	22	-4.97	3.846	1.000	-18.81	8.87
8	1	-62.96	3.662	.000	-76.13	-49.79
	2	-28.94	3.989	.000	-43.30	-14.59
	3	-47.91	3.300	.000	-59.77	-36.04
	4	-26.23	3.576	.000	-39.10	-13.37
	5	-75.40	4.484	.000	-91.55	-59.25
	6	-54.09	4.868	.000	-71.63	-36.54
	7	-17.28	3.378	.000	-29.43	-5.13
	9	38.65	3.117	.000	27.44	49.86
	10	47.97	3.056	.000	36.98	58.96
	11	19.09	3.211	.000	7.54	30.64
	12	24.79	3.287	.000	12.96	36.61
	13	-3.60	4.136	1.000	-18.48	11.29
	14	8.61	4.599	.962	-7.95	25.18
	15	-22.08	3.055	.000	-33.06	-11.09
	16	-8.08	3.251	.645	-19.77	3.62
	17	-.10	3.307	1.000	-11.99	11.79
	18	.88	3.479	1.000	-11.63	13.39
	19	55.68	2.790	.000	45.65	65.72
	20	62.32	2.777	.000	52.33	72.31
	21	-47.50	3.680	.000	-60.74	-34.27
	22	-22.25	3.925	.000	-36.37	-8.13
9	1	-101.61	3.332	.000	-113.59	-89.62
	2	-67.59	3.690	.000	-80.87	-54.31
	3	-86.56	2.930	.000	-97.09	-76.02
	4	-64.89	3.238	.000	-76.53	-53.24
	5	-114.05	4.220	.000	-129.25	-98.85
	6	-92.74	4.626	.000	-109.42	-76.06
	7	-55.93	3.018	.000	-66.78	-45.07
	8	-38.65	3.117	.000	-49.86	-27.44
	10	9.32	2.653	.065	-.22	18.86
	11	-19.56	2.830	.000	-29.73	-9.38
	12	-13.87	2.916	.000	-24.35	-3.38
	13	-42.25	3.847	.000	-56.09	-28.40
	14	-30.04	4.341	.000	-45.69	-14.39
	15	-60.73	2.651	.000	-70.26	-51.20
	16	-46.73	2.875	.000	-57.07	-36.39
	17	-38.75	2.938	.000	-49.31	-28.18
	18	-37.77	3.130	.000	-49.03	-26.51
	19	17.03	2.341	.000	8.62	25.45
	20	23.67	2.326	.000	15.31	32.03
	21	-86.15	3.352	.000	-98.21	-74.10
	22	-60.90	3.620	.000	-73.93	-47.87
10	1	-110.93	3.275	.000	-122.71	-99.14
	2	-76.91	3.638	.000	-90.01	-63.82
	3	-95.88	2.865	.000	-106.18	-85.58
	4	-74.21	3.179	.000	-85.64	-62.77
	5	-123.37	4.175	.000	-138.41	-108.33
	6	-102.06	4.585	.000	-118.60	-85.52
	7	-65.25	2.955	.000	-75.87	-54.62
	8	-47.97	3.056	.000	-58.96	-36.98

	9	-9.32	2.653	.065	-18.86	.22
	11	-28.88	2.763	.000	-38.81	-18.95
	12	-23.19	2.851	.000	-33.44	-12.93
	13	-51.57	3.798	.000	-65.24	-37.90
	14	-39.36	4.297	.000	-54.85	-23.87
	15	-70.05	2.580	.000	-79.32	-60.77
	16	-56.05	2.809	.000	-66.15	-45.95
	17	-48.07	2.873	.000	-58.40	-37.74
	18	-47.09	3.070	.000	-58.13	-36.05
	19	7.71	2.259	.089	-.41	15.83
	20	14.35	2.244	.000	6.28	22.42
	21	-95.47	3.296	.000	-107.33	-83.62
	22	-70.22	3.567	.000	-83.06	-57.38
11	1	-82.05	3.420	.000	-94.35	-69.75
	2	-48.03	3.769	.000	-61.60	-34.47
	3	-67.00	3.029	.000	-77.89	-56.11
	4	-45.33	3.328	.000	-57.30	-33.36
	5	-94.49	4.290	.000	-109.94	-79.04
	6	-73.18	4.689	.000	-90.09	-56.27
	7	-36.37	3.115	.000	-47.57	-25.17
	8	-19.09	3.211	.000	-30.64	-7.54
	9	19.56	2.830	.000	9.38	29.73
	10	28.88	2.763	.000	18.95	38.81
	12	5.69	3.016	.959	-5.15	16.54
	13	-22.69	3.924	.000	-36.81	-8.57
	14	-10.48	4.409	.725	-26.37	5.41
	15	-41.17	2.761	.000	-51.10	-31.24
	16	-27.17	2.977	.000	-37.87	-16.47
	17	-19.19	3.037	.000	-30.11	-8.27
	18	-18.21	3.224	.000	-29.80	-6.62
	19	36.59	2.464	.000	27.73	45.45
	20	43.23	2.450	.000	34.42	52.04
	21	-66.60	3.440	.000	-78.97	-54.22
	22	-41.34	3.700	.000	-54.66	-28.03
12	1	-87.74	3.492	.000	-100.30	-75.18
	2	-53.73	3.834	.000	-67.53	-39.93
	3	-72.69	3.110	.000	-83.88	-61.51
	4	-51.02	3.402	.000	-63.26	-38.78
	5	-100.18	4.347	.000	-115.84	-84.53
	6	-78.87	4.742	.000	-95.97	-61.78
	7	-42.06	3.193	.000	-53.55	-30.58
	8	-24.79	3.287	.000	-36.61	-12.96
	9	13.87	2.916	.000	3.38	24.35
	10	23.19	2.851	.000	12.93	33.44
	11	-5.69	3.016	.959	-16.54	5.15
	13	-28.38	3.986	.000	-42.73	-14.04
	14	-16.17	4.464	.047	-32.26	-.08
	15	-46.86	2.849	.000	-57.11	-36.62
	16	-32.86	3.059	.000	-43.86	-21.86
	17	-24.88	3.118	.000	-36.09	-13.67
	18	-23.90	3.300	.000	-35.77	-12.04
	19	30.90	2.562	.000	21.68	40.11
	20	37.54	2.549	.000	28.37	46.71
	21	-72.29	3.511	.000	-84.92	-59.66
	22	-47.04	3.767	.000	-60.59	-33.48
13	1	-59.36	4.300	.000	-74.83	-43.89
	2	-25.35	4.583	.000	-41.84	-8.86

	3	-44.31	3.996	.000	-58.69	-29.93
	4	-22.64	4.227	.000	-37.85	-7.43
	5	-71.80	5.019	.000	-89.87	-53.74
	6	-50.49	5.365	.000	-69.82	-31.17
	7	-13.68	4.062	.102	-28.30	.94
	8	3.60	4.136	1.000	-11.29	18.48
	9	42.25	3.847	.000	28.40	56.09
	10	51.57	3.798	.000	37.90	65.24
	11	22.69	3.924	.000	8.57	36.81
	12	28.38	3.986	.000	14.04	42.73
	14	12.21	5.122	.720	-6.23	30.65
	15	-18.48	3.797	.000	-32.15	-4.81
	16	-4.48	3.957	1.000	-18.72	9.76
	17	3.50	4.002	1.000	-10.90	17.90
	18	4.48	4.146	1.000	-10.44	19.39
	19	59.28	3.587	.000	46.36	72.19
	20	65.92	3.577	.000	53.04	78.80
	21	-43.91	4.316	.000	-59.44	-28.38
	22	-18.65	4.526	.007	-34.94	-2.37
14	1	-71.57	4.747	.000	-88.67	-54.47
	2	-37.55	5.004	.000	-55.58	-19.53
	3	-56.52	4.474	.000	-72.64	-40.40
	4	-34.85	4.681	.000	-51.71	-17.98
	5	-84.01	5.407	.000	-103.48	-64.54
	6	-62.70	5.729	.000	-83.34	-42.06
	7	-25.89	4.532	.000	-42.22	-9.56
	8	-8.61	4.599	.962	-25.18	7.95
	9	30.04	4.341	.000	14.39	45.69
	10	39.36	4.297	.000	23.87	54.85
	11	10.48	4.409	.725	-5.41	26.37
	12	16.17	4.464	.047	.08	32.26
	13	-12.21	5.122	.720	-30.65	6.23
	15	-30.69	4.296	.000	-46.18	-15.20
	16	-16.69	4.438	.029	-32.68	-7.70
	17	-8.71	4.479	.944	-24.85	7.43
	18	-7.73	4.607	.989	-24.33	8.87
	19	47.07	4.112	.000	32.24	61.90
	20	53.71	4.104	.000	38.91	68.51
	21	-56.12	4.761	.000	-73.26	-38.97
	22	-30.86	4.953	.000	-48.70	-13.03
15	1	-40.88	3.274	.000	-52.66	-29.10
	2	-6.87	3.637	.959	-19.96	6.23
	3	-25.83	2.863	.000	-36.13	-15.54
	4	-4.16	3.178	1.000	-15.59	7.27
	5	-53.32	4.174	.000	-68.36	-38.29
	6	-32.01	4.584	.000	-48.54	-15.48
	7	4.80	2.954	.993	-5.82	15.42
	8	22.08	3.055	.000	11.09	33.06
	9	60.73	2.651	.000	51.20	70.26
	10	70.05	2.580	.000	60.77	79.32
	11	41.17	2.761	.000	31.24	51.10
	12	46.86	2.849	.000	36.62	57.11
	13	18.48	3.797	.000	4.81	32.15
	14	30.69	4.296	.000	15.20	46.18
	16	14.00	2.808	.000	3.90	24.10
	17	21.98	2.872	.000	11.65	32.30
	18	22.96	3.068	.000	11.92	33.99

	19	77.76	2.257	.000	69.64	85.87
	20	84.40	2.242	.000	76.34	92.46
	21	-25.43	3.294	.000	-37.28	-13.58
	22	-.17	3.566	1.000	-13.01	12.66
16	1	-54.88	3.458	.000	-67.32	-42.44
	2	-20.87	3.803	.000	-34.55	-7.18
	3	-39.83	3.072	.000	-50.88	-28.78
	4	-18.16	3.367	.000	-30.27	-6.05
	5	-67.32	4.320	.000	-82.88	-51.76
	6	-46.01	4.717	.000	-63.02	-29.00
	7	-9.20	3.156	.317	-20.55	2.15
	8	8.08	3.251	.645	-3.62	19.77
	9	46.73	2.875	.000	36.39	57.07
	10	56.05	2.809	.000	45.95	66.15
	11	27.17	2.977	.000	16.47	37.87
	12	32.86	3.059	.000	21.86	43.86
	13	4.48	3.957	1.000	-9.76	18.72
	14	16.69	4.438	.029	.70	32.68
	15	-14.00	2.808	.000	-24.10	-3.90
	17	7.98	3.080	.560	-3.09	19.05
	18	8.96	3.264	.439	-2.78	20.70
	19	63.76	2.516	.000	54.71	72.81
	20	70.40	2.503	.000	61.40	79.40
	21	-39.43	3.477	.000	-51.93	-26.92
	22	-14.17	3.735	.026	-27.62	-.73
17	1	-62.86	3.510	.000	-75.48	-50.23
	2	-28.84	3.851	.000	-42.70	-14.99
	3	-47.81	3.131	.000	-59.07	-36.55
	4	-26.14	3.421	.000	-38.44	-13.83
	5	-75.30	4.362	.000	-91.01	-59.59
	6	-53.99	4.755	.000	-71.13	-36.85
	7	-17.18	3.214	.000	-28.73	-5.62
	8	.10	3.307	1.000	-11.79	11.99
	9	38.75	2.938	.000	28.18	49.31
	10	48.07	2.873	.000	37.74	58.40
	11	19.19	3.037	.000	8.27	30.11
	12	24.88	3.118	.000	13.67	36.09
	13	-3.50	4.002	1.000	-17.90	10.90
	14	8.71	4.479	.944	-7.43	24.85
	15	-21.98	2.872	.000	-32.30	-11.65
	16	-7.98	3.080	.560	-19.05	3.09
	18	.98	3.319	1.000	-10.96	12.91
	19	55.78	2.588	.000	46.47	65.08
	20	62.42	2.574	.000	53.16	71.68
	21	-47.41	3.529	.000	-60.10	-34.71
	22	-22.15	3.784	.000	-35.77	-8.54
18	1	-63.84	3.673	.000	-77.05	-50.63
	2	-29.82	4.000	.000	-44.21	-15.43
	3	-48.79	3.312	.000	-60.70	-36.88
	4	-27.12	3.587	.000	-40.02	-14.21
	5	-76.28	4.494	.000	-92.46	-60.10
	6	-54.97	4.877	.000	-72.54	-37.39
	7	-18.16	3.390	.000	-30.35	-5.96
	8	-.88	3.479	1.000	-13.39	11.63
	9	37.77	3.130	.000	26.51	49.03
	10	47.09	3.070	.000	36.05	58.13
	11	18.21	3.224	.000	6.62	29.80

	12	23.90	3.300	.000	12.04	35.77
	13	-4.48	4.146	1.000	-19.39	10.44
	14	7.73	4.607	.989	-8.87	24.33
	15	-22.96	3.068	.000	-33.99	-11.92
	16	-8.96	3.264	.439	-20.70	2.78
	17	-.98	3.319	1.000	-12.91	10.96
	19	54.80	2.804	.000	44.71	64.89
	20	61.44	2.792	.000	51.40	71.48
	21	-48.38	3.691	.000	-61.66	-35.11
	22	-23.13	3.935	.000	-37.29	-8.97
19	1	-118.64	3.028	.000	-129.53	-107.74
	2	-84.62	3.417	.000	-96.93	-72.32
	3	-103.59	2.578	.000	-112.86	-94.32
	4	-81.92	2.924	.000	-92.44	-71.40
	5	-131.08	3.984	.000	-145.44	-116.72
	6	-109.77	4.411	.000	-125.69	-93.85
	7	-72.96	2.678	.000	-82.59	-63.33
	8	-55.68	2.790	.000	-65.72	-45.65
	9	-17.03	2.341	.000	-25.45	-8.62
	10	-7.71	2.259	.089	-15.83	.41
	11	-36.59	2.464	.000	-45.45	-27.73
	12	-30.90	2.562	.000	-40.11	-21.68
	13	-59.28	3.587	.000	-72.19	-46.36
	14	-47.07	4.112	.000	-61.90	-32.24
	15	-77.76	2.257	.000	-85.87	-69.64
	16	-63.76	2.516	.000	-72.81	-54.71
	17	-55.78	2.588	.000	-65.08	-46.47
	18	-54.80	2.804	.000	-64.89	-44.71
	20	6.64	1.864	.055	-.06	13.34
	21	-103.18	3.050	.000	-114.16	-92.21
	22	-77.93	3.341	.000	-89.96	-65.90
20	1	-125.28	3.017	.000	-136.13	-114.42
	2	-91.26	3.407	.000	-103.53	-79.00
	3	-110.23	2.565	.000	-119.45	-101.01
	4	-88.56	2.912	.000	-99.03	-78.08
	5	-137.72	3.975	.000	-152.05	-123.39
	6	-116.41	4.404	.000	-132.30	-100.52
	7	-79.60	2.666	.000	-89.19	-70.01
	8	-62.32	2.777	.000	-72.31	-52.33
	9	-23.67	2.326	.000	-32.03	-15.31
	10	-14.35	2.244	.000	-22.42	-6.28
	11	-43.23	2.450	.000	-52.04	-34.42
	12	-37.54	2.549	.000	-46.71	-28.37
	13	-65.92	3.577	.000	-78.80	-53.04
	14	-53.71	4.104	.000	-68.51	-38.91
	15	-84.40	2.242	.000	-92.46	-76.34
	16	-70.40	2.503	.000	-79.40	-61.40
	17	-62.42	2.574	.000	-71.68	-53.16
	18	-61.44	2.792	.000	-71.48	-51.40
	19	-6.64	1.864	.055	-13.34	.06
	21	-109.83	3.039	.000	-120.76	-98.89
	22	-84.57	3.331	.000	-96.57	-72.58
21	1	-15.45	3.864	.012	-29.35	-1.56
	2	18.56	4.176	.002	3.54	33.58
	3	-.40	3.522	1.000	-13.07	12.26
	4	21.27	3.782	.000	7.66	34.87
	5	-27.90	4.651	.000	-44.64	-11.15

		6	-6.58	5.022	1.000	-24.68	11.51
		7	30.23	3.596	.000	17.29	43.16
		8	47.50	3.680	.000	34.27	60.74
		9	86.15	3.352	.000	74.10	98.21
		10	95.47	3.296	.000	83.62	107.33
		11	66.60	3.440	.000	54.22	78.97
		12	72.29	3.511	.000	59.66	84.92
		13	43.91	4.316	.000	28.38	59.44
		14	56.12	4.761	.000	38.97	73.26
		15	25.43	3.294	.000	13.58	37.28
		16	39.43	3.477	.000	26.92	51.93
		17	47.41	3.529	.000	34.71	60.10
		18	48.38	3.691	.000	35.11	61.66
		19	103.18	3.050	.000	92.21	114.16
		20	109.83	3.039	.000	98.89	120.76
		22	25.25	4.114	.000	10.45	40.05
22		1	-40.71	4.098	.000	-55.45	-25.96
		2	-6.69	4.393	.997	-22.50	9.12
		3	-25.66	3.778	.000	-39.25	-12.06
		4	-3.98	4.021	1.000	-18.45	10.48
		5	-53.15	4.847	.000	-70.60	-35.70
		6	-31.84	5.204	.000	-50.59	-13.09
		7	4.97	3.846	1.000	-8.87	18.81
		8	22.25	3.925	.000	8.13	36.37
		9	60.90	3.620	.000	47.87	73.93
		10	70.22	3.567	.000	57.38	83.06
		11	41.34	3.700	.000	28.03	54.66
		12	47.04	3.767	.000	33.48	60.59
		13	18.65	4.526	.007	2.37	34.94
		14	30.86	4.953	.000	13.03	48.70
		15	.17	3.566	1.000	-12.66	13.01
		16	14.17	3.735	.026	.73	27.62
		17	22.15	3.784	.000	8.54	35.77
		18	23.13	3.935	.000	8.97	37.29
		19	77.93	3.341	.000	65.90	89.96
		20	84.57	3.331	.000	72.58	96.57
		21	-25.25	4.114	.000	-40.05	-10.45
Y5	1	2	9.33	4.262	.845	-6.01	24.66
		3	.65	3.967	1.000	-13.62	14.92
		4	-2.68	4.065	1.000	-17.30	11.95
		5	-29.35	5.670	.000	-49.77	-8.94
		6	-31.85	5.938	.000	-53.25	-10.44
		7	15.43	3.945	.016	1.24	29.62
		8	18.27	3.768	.000	4.71	31.82
		9	26.79	3.634	.000	13.72	39.86
		10	35.42	3.431	.000	23.07	47.76
		11	25.59	3.889	.000	11.60	39.58
		12	30.30	3.745	.000	16.83	43.78
		13	20.59	4.502	.001	4.40	36.79
		14	21.18	4.542	.001	4.83	37.53
		15	15.45	3.645	.005	2.34	28.56
		16	11.21	3.706	.249	-2.12	24.54
		17	21.12	3.767	.000	7.57	34.67
		18	11.70	3.774	.208	-1.87	25.28
		19	30.19	3.365	.000	18.09	42.30
		20	39.53	3.292	.000	27.68	51.38
		21	1.20	4.312	1.000	-14.31	16.71

	22	-85	4.499	1.000	-17.04	15.34
2	1	-9.33	4.262	.845	-24.66	6.01
	3	-8.68	3.853	.808	-22.54	5.18
	4	-12.00	3.954	.243	-26.23	2.22
	5	-38.68	5.591	.000	-58.81	-18.55
	6	-41.17	5.863	.000	-62.31	-20.04
	7	6.10	3.830	.994	-7.67	19.88
	8	8.94	3.648	.670	-4.19	22.07
	9	17.46	3.509	.000	4.83	30.09
	10	26.09	3.299	.000	14.21	37.97
	11	16.27	3.773	.003	2.69	29.84
	12	20.98	3.624	.000	7.93	34.02
	13	11.27	4.402	.585	-4.57	27.11
	14	11.86	4.443	.499	-4.14	27.85
	15	6.13	3.520	.983	-6.54	18.79
	16	1.88	3.584	1.000	-11.01	14.78
	17	11.79	3.647	.148	-1.33	24.92
	18	2.38	3.654	1.000	-10.77	15.52
	19	20.87	3.230	.000	9.24	32.49
	20	30.20	3.154	.000	18.84	41.56
	21	-8.13	4.208	.948	-23.27	7.01
	22	-10.18	4.399	.769	-26.01	5.65
3	1	-65	3.967	1.000	-14.92	13.62
	2	8.68	3.853	.808	-5.18	22.54
	4	-3.32	3.634	1.000	-16.39	9.75
	5	-30.00	5.369	.000	-49.34	-10.66
	6	-32.49	5.652	.000	-52.87	-12.11
	7	14.78	3.499	.005	2.20	27.37
	8	17.62	3.299	.000	5.76	29.48
	9	26.14	3.144	.000	14.83	37.45
	10	34.77	2.908	.000	24.31	45.23
	11	24.95	3.436	.000	12.59	37.30
	12	29.66	3.273	.000	17.89	41.42
	13	19.95	4.117	.000	5.13	34.76
	14	20.54	4.161	.000	5.55	35.52
	15	14.81	3.157	.001	3.45	26.16
	16	10.56	3.228	.133	-1.04	22.17
	17	20.47	3.298	.000	8.61	32.33
	18	11.06	3.305	.109	-.83	22.94
	19	29.55	2.829	.000	19.37	39.72
	20	38.88	2.743	.000	29.02	48.75
	21	.55	3.909	1.000	-13.51	14.61
	22	-1.50	4.114	1.000	-16.30	13.30
4	1	2.68	4.065	1.000	-11.95	17.30
	2	12.00	3.954	.243	-2.22	26.23
	3	3.32	3.634	1.000	-9.75	16.39
	5	-26.68	5.442	.000	-46.28	-7.08
	6	-29.17	5.721	.000	-49.80	-8.54
	7	18.11	3.610	.000	5.13	31.09
	8	20.95	3.416	.000	8.66	33.23
	9	29.46	3.267	.000	17.71	41.21
	10	38.09	3.040	.000	27.15	49.03
	11	28.27	3.549	.000	15.51	41.03
	12	32.98	3.390	.000	20.78	45.18
	13	23.27	4.212	.000	8.12	38.42
	14	23.86	4.255	.000	8.54	39.18
	15	18.13	3.279	.000	6.34	29.92

	16	13.89	3.347	.007	1.85	25.93
	17	23.80	3.415	.000	11.51	36.08
	18	14.38	3.422	.005	2.07	26.69
	19	32.87	2.965	.000	22.20	43.54
	20	42.21	2.883	.000	31.83	52.58
	21	3.87	4.008	1.000	-10.54	18.29
	22	1.82	4.209	1.000	-13.32	16.97
5	1	29.35	5.670	.000	8.94	49.77
	2	38.68	5.591	.000	18.55	58.81
	3	30.00	5.369	.000	10.66	49.34
	4	26.68	5.442	.000	7.08	46.28
	6	-2.49	6.954	1.000	-27.54	22.55
	7	44.78	5.352	.000	25.50	64.07
	8	47.62	5.224	.000	28.80	66.44
	9	56.14	5.128	.000	37.66	74.62
	10	64.77	4.986	.000	46.79	82.75
	11	54.95	5.312	.000	35.81	74.08
	12	59.66	5.207	.000	40.89	78.42
	13	49.95	5.776	.000	29.15	70.74
	14	50.54	5.807	.000	29.62	71.45
	15	44.81	5.136	.000	26.30	63.31
	16	40.56	5.179	.000	21.90	59.23
	17	50.47	5.223	.000	31.65	69.29
	18	41.06	5.228	.000	22.22	59.89
	19	59.55	4.941	.000	41.73	77.36
	20	68.88	4.892	.000	51.24	86.52
	21	30.55	5.629	.000	10.28	50.82
	22	28.50	5.773	.000	7.71	49.29
6	1	31.85	5.938	.000	10.44	53.25
	2	41.17	5.863	.000	20.04	62.31
	3	32.49	5.652	.000	12.11	52.87
	4	29.17	5.721	.000	8.54	49.80
	5	2.49	6.954	1.000	-22.55	27.54
	7	47.28	5.636	.000	26.95	67.60
	8	50.11	5.514	.000	30.22	70.01
	9	58.63	5.423	.000	39.07	78.20
	10	67.26	5.290	.000	48.17	86.36
	11	57.44	5.598	.000	37.25	77.63
	12	62.15	5.499	.000	42.31	81.98
	13	52.44	6.040	.000	30.68	74.20
	14	53.03	6.070	.000	31.15	74.90
	15	47.30	5.431	.000	27.70	66.89
	16	43.06	5.472	.000	23.32	62.80
	17	52.97	5.514	.000	33.08	72.86
	18	43.55	5.518	.000	23.64	63.45
	19	62.04	5.247	.000	43.10	80.98
	20	71.37	5.201	.000	52.60	90.15
	21	33.04	5.899	.000	11.78	54.30
	22	30.99	6.038	.000	9.24	52.75
7	1	-15.43	3.945	.016	-29.62	-1.24
	2	-6.10	3.830	.994	-19.88	7.67
	3	-14.78	3.499	.005	-27.37	-2.20
	4	-18.11	3.610	.000	-31.09	-5.13
	5	-44.78	5.352	.000	-64.07	-25.50
	6	-47.28	5.636	.000	-67.60	-26.95
	8	2.84	3.271	1.000	-8.93	14.60
	9	11.36	3.116	.042	.15	22.56

	10	19.99	2.877	.000	9.64	30.33
	11	10.16	3.410	.276	-2.10	22.42
	12	14.87	3.245	.001	3.20	26.54
	13	5.16	4.095	1.000	-9.57	19.90
	14	5.75	4.140	.999	-9.15	20.66
	15	.02	3.128	1.000	-11.23	11.27
	16	-4.22	3.200	1.000	-15.73	7.29
	17	5.69	3.271	.983	-6.07	17.45
	18	-3.73	3.278	1.000	-15.52	8.06
	19	14.76	2.797	.000	4.70	24.82
	20	24.10	2.710	.000	14.35	33.84
	21	-14.24	3.886	.040	-28.21	-.26
	22	-16.28	4.092	.013	-31.01	-1.56
8	1	-18.27	3.768	.000	-31.82	-4.71
	2	-8.94	3.648	.670	-22.07	4.19
	3	-17.62	3.299	.000	-29.48	-5.76
	4	-20.95	3.416	.000	-33.23	-8.66
	5	-47.62	5.224	.000	-66.44	-28.80
	6	-50.11	5.514	.000	-70.01	-30.22
	7	-2.84	3.271	1.000	-14.60	8.93
	9	8.52	2.889	.295	-1.87	18.91
	10	17.15	2.630	.000	7.69	26.61
	11	7.32	3.204	.788	-4.20	18.85
	12	12.03	3.028	.013	1.14	22.93
	13	2.32	3.925	1.000	-11.80	16.45
	14	2.91	3.972	1.000	-11.39	17.22
	15	-2.82	2.903	1.000	-13.25	7.62
	16	-7.06	2.979	.731	-17.77	3.66
	17	2.85	3.055	1.000	-8.14	13.84
	18	-6.57	3.063	.869	-17.58	4.45
	19	11.92	2.542	.001	2.78	21.07
	20	21.26	2.446	.000	12.46	30.06
	21	-17.07	3.706	.001	-30.40	-3.74
	22	-19.12	3.922	.000	-33.24	-5.00
9	1	-26.79	3.634	.000	-39.86	-13.72
	2	-17.46	3.509	.000	-30.09	-4.83
	3	-26.14	3.144	.000	-37.45	-14.83
	4	-29.46	3.267	.000	-41.21	-17.71
	5	-56.14	5.128	.000	-74.62	-37.66
	6	-58.63	5.423	.000	-78.20	-39.07
	7	-11.36	3.116	.042	-22.56	-.15
	8	-8.52	2.889	.295	-18.91	1.87
	10	8.63	2.434	.059	-.12	17.38
	11	-1.19	3.045	1.000	-12.14	9.75
	12	3.52	2.859	1.000	-6.77	13.80
	13	-6.19	3.797	.992	-19.86	7.47
	14	-5.60	3.845	.998	-19.46	8.25
	15	-11.33	2.726	.006	-21.13	-1.54
	16	-15.58	2.807	.000	-25.67	-5.48
	17	-5.67	2.888	.940	-16.05	4.72
	18	-15.08	2.896	.000	-25.50	-4.67
	19	3.41	2.339	.998	-5.00	11.81
	20	12.74	2.233	.000	4.71	20.77
	21	-25.59	3.570	.000	-38.43	-12.75
	22	-27.64	3.794	.000	-41.30	-13.98
10	1	-35.42	3.431	.000	-47.76	-23.07
	2	-26.09	3.299	.000	-37.97	-14.21

	3	-34.77	2.908	.000	-45.23	-24.31
	4	-38.09	3.040	.000	-49.03	-27.15
	5	-64.77	4.986	.000	-82.75	-46.79
	6	-67.26	5.290	.000	-86.36	-48.17
	7	-19.99	2.877	.000	-30.33	-9.64
	8	-17.15	2.630	.000	-26.61	-7.69
	9	-8.63	2.434	.059	-17.38	.12
	11	-9.82	2.801	.066	-19.89	.25
	12	-5.11	2.597	.938	-14.46	4.23
	13	-14.82	3.604	.008	-27.80	-1.85
	14	-14.23	3.654	.018	-27.41	-1.06
	15	-19.96	2.450	.000	-28.77	-11.16
	16	-24.21	2.540	.000	-33.34	-15.07
	17	-14.30	2.629	.000	-23.75	-4.84
	18	-23.71	2.638	.000	-33.20	-14.22
	19	-5.22	2.010	.554	-12.45	2.00
	20	4.11	1.887	.850	-2.67	10.89
	21	-34.22	3.363	.000	-46.32	-22.12
	22	-36.27	3.600	.000	-49.23	-23.30
11	1	-25.59	3.889	.000	-39.58	-11.60
	2	-16.27	3.773	.003	-29.84	-2.69
	3	-24.95	3.436	.000	-37.30	-12.59
	4	-28.27	3.549	.000	-41.03	-15.51
	5	-54.95	5.312	.000	-74.08	-35.81
	6	-57.44	5.598	.000	-77.63	-37.25
	7	-10.16	3.410	.276	-22.42	2.10
	8	-7.32	3.204	.788	-18.85	4.20
	9	1.19	3.045	1.000	-9.75	12.14
	10	9.82	2.801	.066	-.25	19.89
	12	4.71	3.177	.998	-6.72	16.14
	13	-5.00	4.042	1.000	-19.54	9.54
	14	-4.41	4.087	1.000	-19.13	10.31
	15	-10.14	3.058	.118	-21.14	.86
	16	-14.38	3.131	.001	-25.64	-3.12
	17	-4.47	3.204	.999	-15.99	7.05
	18	-13.89	3.211	.003	-25.44	-2.34
	19	4.60	2.718	.988	-5.18	14.38
	20	13.94	2.629	.000	4.48	23.39
	21	-24.40	3.829	.000	-38.17	-10.62
	22	-26.45	4.039	.000	-40.98	-11.91
12	1	-30.30	3.745	.000	-43.78	-16.83
	2	-20.98	3.624	.000	-34.02	-7.93
	3	-29.66	3.273	.000	-41.42	-17.89
	4	-32.98	3.390	.000	-45.18	-20.78
	5	-59.66	5.207	.000	-78.42	-40.89
	6	-62.15	5.499	.000	-81.98	-42.31
	7	-14.87	3.245	.001	-26.54	-3.20
	8	-12.03	3.028	.013	-22.93	-1.14
	9	-3.52	2.859	1.000	-13.80	6.77
	10	5.11	2.597	.938	-4.23	14.46
	11	-4.71	3.177	.998	-16.14	6.72
	13	-9.71	3.903	.642	-23.76	4.34
	14	-9.12	3.950	.772	-23.35	5.11
	15	-14.85	2.873	.000	-25.18	-4.52
	16	-19.09	2.950	.000	-29.70	-8.48
	17	-9.18	3.027	.244	-20.07	1.70
	18	-18.60	3.035	.000	-29.52	-7.68

	19	-0.11	2.508	1.000	-9.13	8.91
	20	9.23	2.410	.023	.55	17.90
	21	-29.11	3.683	.000	-42.36	-15.86
	22	-31.16	3.900	.000	-45.19	-17.12
13	1	-20.59	4.502	.001	-36.79	-4.40
	2	-11.27	4.402	.585	-27.11	4.57
	3	-19.95	4.117	.000	-34.76	-5.13
	4	-23.27	4.212	.000	-38.42	-8.12
	5	-49.95	5.776	.000	-70.74	-29.15
	6	-52.44	6.040	.000	-74.20	-30.68
	7	-5.16	4.095	1.000	-19.90	9.57
	8	-2.32	3.925	1.000	-16.45	11.80
	9	6.19	3.797	.992	-7.47	19.86
	10	14.82	3.604	.008	1.85	27.80
	11	5.00	4.042	1.000	-9.54	19.54
	12	9.71	3.903	.642	-4.34	23.76
	14	.59	4.674	1.000	-16.24	17.42
	15	-5.14	3.807	.999	-18.84	8.56
	16	-9.38	3.866	.688	-23.30	4.53
	17	.53	3.925	1.000	-13.60	14.65
	18	-8.89	3.931	.803	-23.04	5.26
	19	9.60	3.540	.465	-3.15	22.35
	20	18.93	3.472	.000	6.43	31.44
	21	-19.40	4.450	.003	-35.41	-3.39
	22	-21.45	4.632	.001	-38.11	-4.78
14	1	-21.18	4.542	.001	-37.53	-4.83
	2	-11.86	4.443	.499	-27.85	4.14
	3	-20.54	4.161	.000	-35.52	-5.55
	4	-23.86	4.255	.000	-39.18	-8.54
	5	-50.54	5.807	.000	-71.45	-29.62
	6	-53.03	6.070	.000	-74.90	-31.15
	7	-5.75	4.140	.999	-20.66	9.15
	8	-2.91	3.972	1.000	-17.22	11.39
	9	5.60	3.845	.998	-8.25	19.46
	10	14.23	3.654	.018	1.06	27.41
	11	4.41	4.087	1.000	-10.31	19.13
	12	9.12	3.950	.772	-5.11	23.35
	13	-.59	4.674	1.000	-17.42	16.24
	15	-5.73	3.855	.998	-19.62	8.16
	16	-9.97	3.913	.594	-24.07	4.12
	17	-.06	3.971	1.000	-14.37	14.24
	18	-9.48	3.977	.720	-23.81	4.85
	19	9.01	3.591	.625	-3.94	21.96
	20	18.35	3.524	.000	5.64	31.06
	21	-19.99	4.491	.002	-36.15	-3.82
	22	-22.04	4.671	.001	-38.85	-5.22
15	1	-15.45	3.645	.005	-28.56	-2.34
	2	-6.13	3.520	.983	-18.79	6.54
	3	-14.81	3.157	.001	-26.16	-3.45
	4	-18.13	3.279	.000	-29.92	-6.34
	5	-44.81	5.136	.000	-63.31	-26.30
	6	-47.30	5.431	.000	-66.89	-27.70
	7	-.02	3.128	1.000	-11.27	11.23
	8	2.82	2.903	1.000	-7.62	13.25
	9	11.33	2.726	.006	1.54	21.13
	10	19.96	2.450	.000	11.16	28.77
	11	10.14	3.058	.118	-.86	21.14

	12	14.85	2.873	.000	4.52	25.18
	13	5.14	3.807	.999	-8.56	18.84
	14	5.73	3.855	.998	-8.16	19.62
	16	-4.24	2.822	.997	-14.39	5.90
	17	5.67	2.902	.943	-4.77	16.10
	18	-3.75	2.910	1.000	-14.21	6.71
	19	14.74	2.356	.000	6.27	23.21
	20	24.08	2.251	.000	15.98	32.17
	21	-14.26	3.581	.013	-27.14	-1.38
	22	-16.30	3.804	.004	-30.00	-2.61
16	1	-11.21	3.706	.249	-24.54	2.12
	2	-1.88	3.584	1.000	-14.78	11.01
	3	-10.56	3.228	.133	-22.17	1.04
	4	-13.89	3.347	.007	-25.93	-1.85
	5	-40.56	5.179	.000	-59.23	-21.90
	6	-43.06	5.472	.000	-62.80	-23.32
	7	4.22	3.200	1.000	-7.29	15.73
	8	7.06	2.979	.731	-3.66	17.77
	9	15.58	2.807	.000	5.48	25.67
	10	24.21	2.540	.000	15.07	33.34
	11	14.38	3.131	.001	3.12	25.64
	12	19.09	2.950	.000	8.48	29.70
	13	9.38	3.866	.688	-4.53	23.30
	14	9.97	3.913	.594	-4.12	24.07
	15	4.24	2.822	.997	-5.90	14.39
	17	9.91	2.978	.114	-.80	20.62
	18	.49	2.986	1.000	-10.25	11.23
	19	18.98	2.449	.000	10.17	27.79
	20	28.32	2.349	.000	19.87	36.77
	21	-10.02	3.643	.436	-23.12	3.09
	22	-12.06	3.863	.198	-25.97	1.84
17	1	-21.12	3.767	.000	-34.67	-7.57
	2	-11.79	3.647	.148	-24.92	1.33
	3	-20.47	3.298	.000	-32.33	-8.61
	4	-23.80	3.415	.000	-36.08	-11.51
	5	-50.47	5.223	.000	-69.29	-31.65
	6	-52.97	5.514	.000	-72.86	-33.08
	7	-5.69	3.271	.983	-17.45	6.07
	8	-2.85	3.055	1.000	-13.84	8.14
	9	5.67	2.888	.940	-4.72	16.05
	10	14.30	2.629	.000	4.84	23.75
	11	4.47	3.204	.999	-7.05	15.99
	12	9.18	3.027	.244	-1.70	20.07
	13	-5.53	3.925	1.000	-14.65	13.60
	14	.06	3.971	1.000	-14.24	14.37
	15	-5.67	2.902	.943	-16.10	4.77
	16	-9.91	2.978	.114	-20.62	.80
	18	-9.42	3.063	.221	-20.43	1.59
	19	9.07	2.541	.054	-.06	18.21
	20	18.41	2.445	.000	9.62	27.20
	21	-19.92	3.706	.000	-33.25	-6.60
	22	-21.97	3.922	.000	-36.09	-7.86
18	1	-11.70	3.774	.208	-25.28	1.87
	2	-2.38	3.654	1.000	-15.52	10.77
	3	-11.06	3.305	.109	-22.94	.83
	4	-14.38	3.422	.005	-26.69	-2.07
	5	-41.06	5.228	.000	-59.89	-22.22

	6	-43.55	5.518	.000	-63.45	-23.64
	7	3.73	3.278	1.000	-8.06	15.52
	8	6.57	3.063	.869	-4.45	17.58
	9	15.08	2.896	.000	4.67	25.50
	10	23.71	2.638	.000	14.22	33.20
	11	13.89	3.211	.003	2.34	25.44
	12	18.60	3.035	.000	7.68	29.52
	13	8.89	3.931	.803	-5.26	23.04
	14	9.48	3.977	.720	-4.85	23.81
	15	3.75	2.910	1.000	-6.71	14.21
	16	-.49	2.986	1.000	-11.23	10.25
	17	9.42	3.063	.221	-1.59	20.43
	19	18.49	2.551	.000	9.32	27.66
	20	27.83	2.455	.000	19.00	36.66
	21	-10.51	3.712	.376	-23.86	2.85
	22	-12.56	3.928	.164	-26.69	1.58
19	1	-30.19	3.365	.000	-42.30	-18.09
	2	-20.87	3.230	.000	-32.49	-9.24
	3	-29.55	2.829	.000	-39.72	-19.37
	4	-32.87	2.965	.000	-43.54	-22.20
	5	-59.55	4.941	.000	-77.36	-41.73
	6	-62.04	5.247	.000	-80.98	-43.10
	7	-14.76	2.797	.000	-24.82	-4.70
	8	-11.92	2.542	.001	-21.07	-2.78
	9	-3.41	2.339	.998	-11.81	5.00
	10	5.22	2.010	.554	-2.00	12.45
	11	-4.60	2.718	.988	-14.38	5.18
	12	.11	2.508	1.000	-8.91	9.13
	13	-9.60	3.540	.465	-22.35	3.15
	14	-9.01	3.591	.625	-21.96	3.94
	15	-14.74	2.356	.000	-23.21	-6.27
	16	-18.98	2.449	.000	-27.79	-10.17
	17	-9.07	2.541	.054	-18.21	.06
	18	-18.49	2.551	.000	-27.66	-9.32
	20	9.34	1.762	.000	3.00	15.67
	21	-29.00	3.295	.000	-40.85	-17.14
	22	-31.05	3.537	.000	-43.78	-18.31
20	1	-39.53	3.292	.000	-51.38	-27.68
	2	-30.20	3.154	.000	-41.56	-18.84
	3	-38.88	2.743	.000	-48.75	-29.02
	4	-42.21	2.883	.000	-52.58	-31.83
	5	-68.88	4.892	.000	-86.52	-51.24
	6	-71.37	5.201	.000	-90.15	-52.60
	7	-24.10	2.710	.000	-33.84	-14.35
	8	-21.26	2.446	.000	-30.06	-12.46
	9	-12.74	2.233	.000	-20.77	-4.71
	10	-4.11	1.887	.850	-10.89	2.67
	11	-13.94	2.629	.000	-23.39	-4.48
	12	-9.23	2.410	.023	-17.90	-.55
	13	-18.93	3.472	.000	-31.44	-6.43
	14	-18.35	3.524	.000	-31.06	-5.64
	15	-24.08	2.251	.000	-32.17	-15.98
	16	-28.32	2.349	.000	-36.77	-19.87
	17	-18.41	2.445	.000	-27.20	-9.62
	18	-27.83	2.455	.000	-36.66	-19.00
	19	-9.34	1.762	.000	-15.67	-3.00
	21	-38.33	3.222	.000	-49.93	-26.74

		22	-40.38	3.468	.000	-52.87	-27.89
	21	1	-1.20	4.312	1.000	-16.71	14.31
		2	8.13	4.208	.948	-7.01	23.27
		3	-5.55	3.909	1.000	-14.61	13.51
		4	-3.87	4.008	1.000	-18.29	10.54
		5	-30.55	5.629	.000	-50.82	-10.28
		6	-33.04	5.899	.000	-54.30	-11.78
		7	14.24	3.886	.040	.26	28.21
		8	17.07	3.706	.001	3.74	30.40
		9	25.59	3.570	.000	12.75	38.43
		10	34.22	3.363	.000	22.12	46.32
		11	24.40	3.829	.000	10.62	38.17
		12	29.11	3.683	.000	15.86	42.36
		13	19.40	4.450	.003	3.39	35.41
		14	19.99	4.491	.002	3.82	36.15
		15	14.26	3.581	.013	1.38	27.14
		16	10.02	3.643	.436	-3.09	23.12
		17	19.92	3.706	.000	6.60	33.25
		18	10.51	3.712	.376	-2.85	23.86
		19	29.00	3.295	.000	17.14	40.85
		20	38.33	3.222	.000	26.74	49.93
		22	-2.05	4.448	1.000	-18.05	13.95
	22	1	.85	4.499	1.000	-15.34	17.04
		2	10.18	4.399	.769	-5.65	26.01
		3	1.50	4.114	1.000	-13.30	16.30
		4	-1.82	4.209	1.000	-16.97	13.32
		5	-28.50	5.773	.000	-49.29	-7.71
		6	-30.99	6.038	.000	-52.75	-9.24
		7	16.28	4.092	.013	1.56	31.01
		8	19.12	3.922	.000	5.00	33.24
		9	27.64	3.794	.000	13.98	41.30
		10	36.27	3.600	.000	23.30	49.23
		11	26.45	4.039	.000	11.91	40.98
		12	31.16	3.900	.000	17.12	45.19
		13	21.45	4.632	.001	4.78	38.11
		14	22.04	4.671	.001	5.22	38.85
		15	16.30	3.804	.004	2.61	30.00
		16	12.06	3.863	.198	-1.84	25.97
		17	21.97	3.922	.000	7.86	36.09
		18	12.56	3.928	.164	-1.58	26.69
		19	31.05	3.537	.000	18.31	43.78
		20	40.38	3.468	.000	27.89	52.87
		21	2.05	4.448	1.000	-13.95	18.05
Y6	1	2	17.49	4.568	.022	1.06	33.93
		3	-3.81	4.182	1.000	-18.85	11.23
		4	15.98	4.231	.027	.76	31.20
		5	-47.00	5.674	.000	-67.43	-26.57
		6	-28.96	6.088	.000	-50.90	-7.02
		7	25.19	4.111	.000	10.41	39.98
		8	50.37	3.865	.000	36.47	64.28
		9	64.14	3.797	.000	50.48	77.81
		10	63.92	3.671	.000	50.71	77.13
		11	46.80	4.019	.000	32.34	61.25
		12	59.33	3.828	.000	45.56	73.11
		13	45.62	4.753	.000	28.52	62.72
		14	52.40	4.545	.000	36.04	68.75
		15	24.63	3.868	.000	10.72	38.55

	16	34.23	3.881	.000	20.26	48.19
	17	39.62	4.008	.000	25.20	54.03
	18	43.47	4.006	.000	29.06	57.88
	19	71.92	3.573	.000	59.06	84.78
	20	71.24	3.503	.000	58.63	83.85
	21	-2.31	4.528	1.000	-18.60	13.98
	22	13.95	4.553	.228	-2.43	30.33
2	1	-17.49	4.568	.022	-33.93	-1.06
	3	-21.30	4.045	.000	-35.86	-6.75
	4	-1.51	4.095	1.000	-16.25	13.22
	5	-64.49	5.574	.000	-84.56	-44.42
	6	-46.45	5.994	.000	-68.06	-24.85
	7	7.70	3.971	.946	-6.58	21.99
	8	32.88	3.716	.000	19.51	46.26
	9	46.65	3.646	.000	33.53	59.77
	10	46.43	3.514	.000	33.78	59.08
	11	29.30	3.875	.000	15.36	43.25
	12	41.84	3.678	.000	28.60	55.08
	13	28.13	4.633	.000	11.46	44.80
	14	34.91	4.419	.000	19.00	50.81
	15	7.14	3.720	.951	-6.25	20.53
	16	16.73	3.732	.002	3.30	30.17
	17	22.12	3.865	.000	8.22	36.03
	18	25.98	3.862	.000	12.08	39.88
	19	54.43	3.412	.000	42.14	66.71
	20	53.75	3.338	.000	41.73	65.77
	21	-19.80	4.402	.001	-35.64	-3.97
	22	-3.54	4.427	1.000	-19.47	12.39
3	1	3.81	4.182	1.000	-11.23	18.85
	2	21.30	4.045	.000	6.75	35.86
	4	19.79	3.660	.000	6.63	32.95
	5	-43.19	5.262	.000	-62.14	-24.23
	6	-25.15	5.706	.002	-45.72	-4.57
	7	29.01	3.521	.000	16.35	41.66
	8	54.18	3.230	.000	42.57	65.80
	9	67.96	3.149	.000	56.63	79.28
	10	67.73	2.996	.000	56.96	78.50
	11	50.61	3.412	.000	38.34	62.88
	12	63.14	3.186	.000	51.69	74.60
	13	49.43	4.253	.000	34.13	64.74
	14	56.21	4.019	.000	41.74	70.68
	15	28.44	3.234	.000	16.82	40.07
	16	38.04	3.249	.000	26.35	49.72
	17	43.43	3.400	.000	31.20	55.65
	18	47.28	3.398	.000	35.07	59.50
	19	75.73	2.875	.000	65.39	86.07
	20	75.05	2.787	.000	65.03	85.08
	21	1.50	4.000	1.000	-12.88	15.89
	22	17.76	4.028	.002	3.27	32.25
4	1	-15.98	4.231	.027	-31.20	-7.76
	2	1.51	4.095	1.000	-13.22	16.25
	3	-19.79	3.660	.000	-32.95	-6.63
	5	-62.98	5.301	.000	-82.07	-43.88
	6	-44.94	5.742	.000	-65.64	-24.24
	7	9.22	3.578	.572	-3.65	22.09
	8	34.40	3.293	.000	22.55	46.24
	9	48.17	3.213	.000	36.61	59.72

	10	47.94	3.063	.000	36.92	58.96
	11	30.82	3.472	.000	18.33	43.30
	12	43.36	3.249	.000	31.67	55.04
	13	29.64	4.301	.000	14.17	45.12
	14	36.42	4.069	.000	21.77	51.07
	15	8.66	3.297	.533	-3.20	20.51
	16	18.25	3.311	.000	6.34	30.16
	17	23.64	3.459	.000	11.20	36.08
	18	27.50	3.457	.000	15.06	39.93
	19	55.94	2.945	.000	45.34	66.54
	20	55.26	2.859	.000	44.98	65.55
	21	-18.29	4.051	.001	-32.86	-3.72
	22	-2.03	4.078	1.000	-16.70	12.65
5	1	47.00	5.674	.000	26.57	67.43
	2	64.49	5.574	.000	44.42	84.56
	3	43.19	5.262	.000	24.23	62.14
	4	62.98	5.301	.000	43.88	82.07
	6	18.04	6.875	.534	-6.72	42.80
	7	72.19	5.206	.000	53.44	90.94
	8	97.37	5.014	.000	79.30	115.44
	9	111.14	4.962	.000	93.26	129.02
	10	110.92	4.866	.000	93.38	128.46
	11	93.79	5.133	.000	75.30	112.29
	12	106.33	4.985	.000	88.37	124.30
	13	92.62	5.727	.000	72.00	113.24
	14	99.40	5.555	.000	79.39	119.40
	15	71.63	5.016	.000	53.56	89.71
	16	81.22	5.026	.000	63.11	99.33
	17	86.61	5.125	.000	68.15	105.08
	18	90.47	5.123	.000	72.01	108.93
	19	118.92	4.793	.000	101.64	136.19
	20	118.24	4.740	.000	101.15	135.33
	21	44.69	5.541	.000	24.74	64.64
	22	60.95	5.561	.000	40.92	80.97
6	1	28.96	6.088	.000	7.02	50.90
	2	46.45	5.994	.000	24.85	68.06
	3	25.15	5.706	.002	4.57	45.72
	4	44.94	5.742	.000	24.24	65.64
	5	-18.04	6.875	.534	-42.80	6.72
	7	54.15	5.654	.000	33.77	74.54
	8	79.33	5.478	.000	59.57	99.10
	9	93.10	5.430	.000	73.51	112.70
	10	92.88	5.343	.000	73.60	112.16
	11	75.76	5.587	.000	55.60	95.91
	12	88.29	5.452	.000	68.62	107.96
	13	74.58	6.137	.000	52.47	96.69
	14	81.36	5.977	.000	59.81	102.90
	15	53.59	5.480	.000	33.82	73.36
	16	63.19	5.489	.000	43.38	82.99
	17	68.58	5.580	.000	48.45	88.70
	18	72.43	5.578	.000	52.31	92.55
	19	100.88	5.276	.000	81.83	119.92
	20	100.20	5.229	.000	81.32	119.08
	21	26.65	5.964	.002	5.15	48.14
	22	42.91	5.983	.000	21.35	64.47
7	1	-25.19	4.111	.000	-39.98	-10.41
	2	-7.70	3.971	.946	-21.99	6.58

	3	-29.01	3.521	.000	-41.66	-16.35
	4	-9.22	3.578	.572	-22.09	3.65
	5	-72.19	5.206	.000	-90.94	-53.44
	6	-54.15	5.654	.000	-74.54	-33.77
	8	25.18	3.137	.000	13.90	36.46
	9	38.95	3.053	.000	27.97	49.93
	10	38.73	2.895	.000	28.31	49.14
	11	21.60	3.325	.000	9.65	33.55
	12	34.14	3.092	.000	23.02	45.26
	13	20.43	4.183	.000	5.37	35.48
	14	27.20	3.945	.000	13.00	41.41
	15	-.56	3.141	1.000	-11.86	10.73
	16	9.03	3.157	.354	-2.32	20.38
	17	14.42	3.312	.003	2.51	26.33
	18	18.28	3.309	.000	6.38	30.18
	19	46.72	2.770	.000	36.76	56.68
	20	46.05	2.679	.000	36.41	55.68
	21	-27.51	3.925	.000	-41.62	-13.39
	22	-11.24	3.954	.366	-25.47	2.98
8	1	-50.37	3.865	.000	-64.28	-36.47
	2	-32.88	3.716	.000	-46.26	-19.51
	3	-54.18	3.230	.000	-65.80	-42.57
	4	-34.40	3.293	.000	-46.24	-22.55
	5	-97.37	5.014	.000	-115.44	-79.30
	6	-79.33	5.478	.000	-99.10	-59.57
	7	-25.18	3.137	.000	-36.46	-13.90
	9	13.77	2.713	.000	4.01	23.53
	10	13.55	2.534	.000	4.43	22.66
	11	-3.58	3.015	1.000	-14.42	7.27
	12	8.96	2.757	.142	-.96	18.88
	13	-4.75	3.942	1.000	-18.94	9.44
	14	2.02	3.688	1.000	-11.26	15.31
	15	-25.74	2.812	.000	-35.85	-15.63
	16	-16.15	2.829	.000	-26.32	-5.97
	17	-10.76	3.001	.052	-21.55	.03
	18	-6.90	2.999	.778	-17.69	3.88
	19	21.54	2.390	.000	12.95	30.14
	20	20.87	2.284	.000	12.65	29.09
	21	-52.68	3.667	.000	-65.88	-39.49
	22	-36.42	3.697	.000	-49.73	-23.11
9	1	-64.14	3.797	.000	-77.81	-50.48
	2	-46.65	3.646	.000	-59.77	-33.53
	3	-67.96	3.149	.000	-79.28	-56.63
	4	-48.17	3.213	.000	-59.72	-36.61
	5	-111.14	4.962	.000	-129.02	-93.26
	6	-93.10	5.430	.000	-112.70	-73.51
	7	-38.95	3.053	.000	-49.93	-27.97
	8	-13.77	2.713	.000	-23.53	-4.01
	10	-.22	2.430	1.000	-8.96	8.51
	11	-17.35	2.928	.000	-27.88	-6.82
	12	-4.81	2.661	.974	-14.38	4.76
	13	-18.52	3.875	.000	-32.47	-4.57
	14	-11.75	3.617	.144	-24.78	1.28
	15	-39.51	2.718	.000	-49.28	-29.74
	16	-29.92	2.736	.000	-39.76	-20.08
	17	-24.53	2.913	.000	-35.00	-14.05
	18	-20.67	2.911	.000	-31.14	-10.20

	19	7.77	2.279	.089	-42	15.97
	20	7.10	2.167	.132	-69	14.89
	21	-66.45	3.596	.000	-79.39	-53.52
	22	-50.19	3.627	.000	-63.25	-37.14
10	1	-63.92	3.671	.000	-77.13	-50.71
	2	-46.43	3.514	.000	-59.08	-33.78
	3	-67.73	2.996	.000	-78.50	-56.96
	4	-47.94	3.063	.000	-58.96	-36.92
	5	-110.92	4.866	.000	-128.46	-93.38
	6	-92.88	5.343	.000	-112.16	-73.60
	7	-38.73	2.895	.000	-49.14	-28.31
	8	-13.55	2.534	.000	-22.66	-4.43
	9	.22	2.430	1.000	-8.51	8.96
	11	-17.13	2.763	.000	-27.06	-7.19
	12	-4.59	2.478	.966	-13.50	4.32
	13	-18.30	3.752	.000	-31.81	-4.79
	14	-11.52	3.484	.123	-24.08	1.04
	15	-39.29	2.540	.000	-48.42	-30.16
	16	-29.69	2.558	.000	-38.89	-20.50
	17	-24.31	2.747	.000	-34.18	-14.43
	18	-20.45	2.745	.000	-30.32	-10.58
	19	8.00	2.062	.019	.58	15.41
	20	7.32	1.938	.027	.35	14.29
	21	-66.23	3.462	.000	-78.69	-53.77
	22	-49.97	3.495	.000	-62.55	-37.39
11	1	-46.80	4.019	.000	-61.25	-32.34
	2	-29.30	3.875	.000	-43.25	-15.36
	3	-50.61	3.412	.000	-62.88	-38.34
	4	-30.82	3.472	.000	-43.30	-18.33
	5	-93.79	5.133	.000	-112.29	-75.30
	6	-75.76	5.587	.000	-95.91	-55.60
	7	-21.60	3.325	.000	-33.55	-9.65
	8	3.58	3.015	1.000	-7.27	14.42
	9	17.35	2.928	.000	6.82	27.88
	10	17.13	2.763	.000	7.19	27.06
	12	12.54	2.968	.005	1.86	23.21
	13	-1.17	4.093	1.000	-15.90	13.55
	14	5.60	3.848	.998	-8.26	19.46
	15	-22.16	3.020	.000	-33.02	-11.31
	16	-12.57	3.035	.007	-23.48	-1.65
	17	-7.18	3.197	.812	-18.67	4.31
	18	-3.32	3.194	1.000	-14.81	8.16
	19	25.12	2.631	.000	15.66	34.58
	20	24.45	2.535	.000	15.33	33.56
	21	-49.11	3.829	.000	-62.88	-35.34
	22	-32.84	3.858	.000	-46.73	-18.96
12	1	-59.33	3.828	.000	-73.11	-45.56
	2	-41.84	3.678	.000	-55.08	-28.60
	3	-63.14	3.186	.000	-74.60	-51.69
	4	-43.36	3.249	.000	-55.04	-31.67
	5	-106.33	4.985	.000	-124.30	-88.37
	6	-88.29	5.452	.000	-107.96	-68.62
	7	-34.14	3.092	.000	-45.26	-23.02
	8	-8.96	2.757	.142	-18.88	.96
	9	4.81	2.661	.974	-4.76	14.38
	10	4.59	2.478	.966	-4.32	13.50
	11	-12.54	2.968	.005	-23.21	-1.86

	13	-13.71	3.906	.066	-27.77	.35
	14	-6.94	3.649	.956	-20.08	6.21
	15	-34.70	2.761	.000	-44.63	-24.77
	16	-25.11	2.779	.000	-35.10	-15.11
	17	-19.72	2.954	.000	-30.34	-9.10
	18	-15.86	2.951	.000	-26.47	-5.25
	19	12.58	2.330	.000	4.20	20.97
	20	11.91	2.221	.000	3.92	19.90
	21	-61.64	3.628	.000	-74.70	-48.59
	22	-45.38	3.659	.000	-58.55	-32.21
13	1	-45.62	4.753	.000	-62.72	-28.52
	2	-28.13	4.633	.000	-44.80	-11.46
	3	-49.43	4.253	.000	-64.74	-34.13
	4	-29.64	4.301	.000	-45.12	-14.17
	5	-92.62	5.727	.000	-113.24	-72.00
	6	-74.58	6.137	.000	-96.69	-52.47
	7	-20.43	4.183	.000	-35.48	-5.37
	8	4.75	3.942	1.000	-9.44	18.94
	9	18.52	3.875	.000	4.57	32.47
	10	18.30	3.752	.000	4.79	31.81
	11	1.17	4.093	1.000	-13.55	15.90
	12	13.71	3.906	.066	-.35	27.77
	14	6.78	4.610	.998	-9.82	23.37
	15	-20.99	3.945	.000	-35.19	-6.79
	16	-11.39	3.957	.341	-25.64	2.85
	17	-6.01	4.082	.998	-20.70	8.69
	18	-2.15	4.080	1.000	-16.83	12.54
	19	26.30	3.656	.000	13.13	39.46
	20	25.62	3.588	.000	12.70	38.54
	21	-47.93	4.594	.000	-64.46	-31.40
	22	-31.67	4.618	.000	-48.29	-15.05
14	1	-52.40	4.545	.000	-68.75	-36.04
	2	-34.91	4.419	.000	-50.81	-19.00
	3	-56.21	4.019	.000	-70.68	-41.74
	4	-36.42	4.069	.000	-51.07	-21.77
	5	-99.40	5.555	.000	-119.40	-79.39
	6	-81.36	5.977	.000	-102.90	-59.81
	7	-27.20	3.945	.000	-41.41	-13.00
	8	-2.02	3.688	1.000	-15.31	11.26
	9	11.75	3.617	.144	-1.28	24.78
	10	11.52	3.484	.123	-1.04	24.08
	11	-5.60	3.848	.998	-19.46	8.26
	12	6.94	3.649	.956	-6.21	20.08
	13	-6.78	4.610	.998	-23.37	9.82
	15	-27.76	3.691	.000	-41.06	-14.47
	16	-18.17	3.704	.000	-31.51	-4.83
	17	-12.78	3.837	.114	-26.60	1.04
	18	-8.92	3.835	.760	-22.74	4.89
	19	19.52	3.381	.000	7.33	31.71
	20	18.85	3.307	.000	6.92	30.77
	21	-54.71	4.378	.000	-70.46	-38.95
	22	-38.45	4.403	.000	-54.30	-22.59
15	1	-24.63	3.868	.000	-38.55	-10.72
	2	-7.14	3.720	.951	-20.53	6.25
	3	-28.44	3.234	.000	-40.07	-16.82
	4	-8.66	3.297	.533	-20.51	3.20
	5	-71.63	5.016	.000	-89.71	-53.56

	6	-53.59	5.480	.000	-73.36	-33.82
	7	.56	3.141	1.000	-10.73	11.86
	8	25.74	2.812	.000	15.63	35.85
	9	39.51	2.718	.000	29.74	49.28
	10	39.29	2.540	.000	30.16	48.42
	11	22.16	3.020	.000	11.31	33.02
	12	34.70	2.761	.000	24.77	44.63
	13	20.99	3.945	.000	6.79	35.19
	14	27.76	3.691	.000	14.47	41.06
	16	9.59	2.834	.096	-.60	19.78
	17	14.98	3.006	.000	4.18	25.79
	18	18.84	3.003	.000	8.04	29.64
	19	47.28	2.396	.000	38.67	55.90
	20	46.61	2.290	.000	38.38	54.84
	21	-26.94	3.671	.000	-40.15	-13.74
	22	-10.68	3.701	.337	-24.00	2.64
16	1	-34.23	3.881	.000	-48.19	-20.26
	2	-16.73	3.732	.002	-30.17	-3.30
	3	-38.04	3.249	.000	-49.72	-26.35
	4	-18.25	3.311	.000	-30.16	-6.34
	5	-81.22	5.026	.000	-99.33	-63.11
	6	-63.19	5.489	.000	-82.99	-43.38
	7	-9.03	3.157	.354	-20.38	2.32
	8	16.15	2.829	.000	5.97	26.32
	9	29.92	2.736	.000	20.08	39.76
	10	29.69	2.558	.000	20.50	38.89
	11	12.57	3.035	.007	1.65	23.48
	12	25.11	2.779	.000	15.11	35.10
	13	11.39	3.957	.341	-2.85	25.64
	14	18.17	3.704	.000	4.83	31.51
	15	-9.59	2.834	.096	-19.78	.60
	17	5.39	3.021	.978	-5.47	16.25
	18	9.25	3.019	.228	-1.61	20.10
	19	37.69	2.416	.000	29.00	46.38
	20	37.02	2.310	.000	28.71	45.33
	21	-36.54	3.684	.000	-49.79	-23.29
	22	-20.28	3.714	.000	-33.64	-6.91
17	1	-39.62	4.008	.000	-54.03	-25.20
	2	-22.12	3.865	.000	-36.03	-8.22
	3	-43.43	3.400	.000	-55.65	-31.20
	4	-23.64	3.459	.000	-36.08	-11.20
	5	-86.61	5.125	.000	-105.08	-68.15
	6	-68.58	5.580	.000	-88.70	-48.45
	7	-14.42	3.312	.003	-26.33	-2.51
	8	10.76	3.001	.052	-.03	21.55
	9	24.53	2.913	.000	14.05	35.00
	10	24.31	2.747	.000	14.43	34.18
	11	7.18	3.197	.812	-4.31	18.67
	12	19.72	2.954	.000	9.10	30.34
	13	6.01	4.082	.998	-8.69	20.70
	14	12.78	3.837	.114	-1.04	26.60
	15	-14.98	3.006	.000	-25.79	-4.18
	16	-5.39	3.021	.978	-16.25	5.47
	18	3.86	3.181	1.000	-7.58	15.30
	19	32.30	2.615	.000	22.90	41.70
	20	31.63	2.518	.000	22.57	40.68
	21	-41.93	3.817	.000	-55.66	-28.20

	22	-25.66	3.847	.000	-39.51	-11.82
18	1	-43.47	4.006	.000	-57.88	-29.06
	2	-25.98	3.862	.000	-39.88	-12.08
	3	-47.28	3.398	.000	-59.50	-35.07
	4	-27.50	3.457	.000	-39.93	-15.06
	5	-90.47	5.123	.000	-108.93	-72.01
	6	-72.43	5.578	.000	-92.55	-52.31
	7	-18.28	3.309	.000	-30.18	-6.38
	8	6.90	2.999	.778	-3.88	17.69
	9	20.67	2.911	.000	10.20	31.14
	10	20.45	2.745	.000	10.58	30.32
	11	3.32	3.194	1.000	-8.16	14.81
	12	15.86	2.951	.000	5.25	26.47
	13	2.15	4.080	1.000	-12.54	16.83
	14	8.92	3.835	.760	-4.89	22.74
	15	-18.84	3.003	.000	-29.64	-8.04
	16	-9.25	3.019	.228	-20.10	1.61
	17	-3.86	3.181	1.000	-15.30	7.58
	19	28.44	2.612	.000	19.05	37.84
	20	27.77	2.515	.000	18.72	36.82
	21	-45.78	3.815	.000	-59.51	-32.06
	22	-29.52	3.845	.000	-43.36	-15.69
19	1	-71.92	3.573	.000	-84.78	-59.06
	2	-54.43	3.412	.000	-66.71	-42.14
	3	-75.73	2.875	.000	-86.07	-65.39
	4	-55.94	2.945	.000	-66.54	-45.34
	5	-118.92	4.793	.000	-136.19	-101.64
	6	-100.88	5.276	.000	-119.92	-81.83
	7	-46.72	2.770	.000	-56.68	-36.76
	8	-21.54	2.390	.000	-30.14	-12.95
	9	-7.77	2.279	.089	-15.97	.42
	10	-8.00	2.062	.019	-15.41	-.58
	11	-25.12	2.631	.000	-34.58	-15.66
	12	-12.58	2.330	.000	-20.97	-4.20
	13	-26.30	3.656	.000	-39.46	-13.13
	14	-19.52	3.381	.000	-31.71	-7.33
	15	-47.28	2.396	.000	-55.90	-38.67
	16	-37.69	2.416	.000	-46.38	-29.00
	17	-32.30	2.615	.000	-41.70	-22.90
	18	-28.44	2.612	.000	-37.84	-19.05
	20	-.67	1.746	1.000	-6.95	5.60
	21	-74.23	3.358	.000	-86.31	-62.14
	22	-57.97	3.392	.000	-70.18	-45.75
20	1	-71.24	3.503	.000	-83.85	-58.63
	2	-53.75	3.338	.000	-65.77	-41.73
	3	-75.05	2.787	.000	-85.08	-65.03
	4	-55.26	2.859	.000	-65.55	-44.98
	5	-118.24	4.740	.000	-135.33	-101.15
	6	-100.20	5.229	.000	-119.08	-81.32
	7	-46.05	2.679	.000	-55.68	-36.41
	8	-20.87	2.284	.000	-29.09	-12.65
	9	-7.10	2.167	.132	-14.89	.69
	10	-7.32	1.938	.027	-14.29	-.35
	11	-24.45	2.535	.000	-33.56	-15.33
	12	-11.91	2.221	.000	-19.90	-3.92
	13	-25.62	3.588	.000	-38.54	-12.70
	14	-18.85	3.307	.000	-30.77	-6.92

	15	-46.61	2.290	.000	-54.84	-38.38	
	16	-37.02	2.310	.000	-45.33	-28.71	
	17	-31.63	2.518	.000	-40.68	-22.57	
	18	-27.77	2.515	.000	-36.82	-18.72	
	19	.67	1.746	1.000	-5.60	6.95	
	21	-73.55	3.283	.000	-85.37	-61.74	
	22	-57.29	3.317	.000	-69.24	-45.34	
21	1	2.31	4.528	1.000	-13.98	18.60	
	2	19.80	4.402	.001	3.97	35.64	
	3	-1.50	4.000	1.000	-15.89	12.88	
	4	18.29	4.051	.001	3.72	32.86	
	5	-44.69	5.541	.000	-64.64	-24.74	
	6	-26.65	5.964	.002	-48.14	-5.15	
	7	27.51	3.925	.000	13.39	41.62	
	8	52.68	3.667	.000	39.49	65.88	
	9	66.45	3.596	.000	53.52	79.39	
	10	66.23	3.462	.000	53.77	78.69	
	11	49.11	3.829	.000	35.34	62.88	
	12	61.64	3.628	.000	48.59	74.70	
	13	47.93	4.594	.000	31.40	64.46	
	14	54.71	4.378	.000	38.95	70.46	
	15	26.94	3.671	.000	13.74	40.15	
	16	36.54	3.684	.000	23.29	49.79	
	17	41.93	3.817	.000	28.20	55.66	
	18	45.78	3.815	.000	32.06	59.51	
	19	74.23	3.358	.000	62.14	86.31	
	20	73.55	3.283	.000	61.74	85.37	
	22	16.26	4.386	.035	.48	32.04	
22	1	-13.95	4.553	.228	-30.33	2.43	
	2	3.54	4.427	1.000	-12.39	19.47	
	3	-17.76	4.028	.002	-32.25	-3.27	
	4	2.03	4.078	1.000	-12.65	16.70	
	5	-60.95	5.561	.000	-80.97	-40.92	
	6	-42.91	5.983	.000	-64.47	-21.35	
	7	11.24	3.954	.366	-2.98	25.47	
	8	36.42	3.697	.000	23.11	49.73	
	9	50.19	3.627	.000	37.14	63.25	
	10	49.97	3.495	.000	37.39	62.55	
	11	32.84	3.858	.000	18.96	46.73	
	12	45.38	3.659	.000	32.21	58.55	
	13	31.67	4.618	.000	15.05	48.29	
	14	38.45	4.403	.000	22.59	54.30	
	15	10.68	3.701	.337	-2.64	24.00	
	16	20.28	3.714	.000	6.91	33.64	
	17	25.66	3.847	.000	11.82	39.51	
	18	29.52	3.845	.000	15.69	43.36	
	19	57.97	3.392	.000	45.75	70.18	
	20	57.29	3.317	.000	45.34	69.24	
	21	-16.26	4.386	.035	-32.04	-4.8	
Y7	1	2	12.81	5.243	.676	-6.05	31.68
		3	8.93	4.557	.941	-7.46	25.32
		4	7.90	4.711	.989	-9.05	24.85
		5	-60.78	6.555	.000	-84.38	-37.17
		6	-40.73	6.599	.000	-64.51	-16.95
		7	42.82	4.452	.000	26.80	58.84
		8	46.03	4.438	.000	30.06	62.00
		9	79.29	4.128	.000	64.44	94.15

	10	72.64	4.047	.000	58.08	87.21
	11	75.80	4.223	.000	60.61	90.99
	12	69.60	4.222	.000	54.41	84.79
	13	47.49	5.167	.000	28.91	66.08
	14	41.09	5.471	.000	21.39	60.78
	15	32.52	4.202	.000	17.40	47.64
	16	29.86	4.304	.000	14.38	45.34
	17	58.39	4.349	.000	42.74	74.03
	18	38.85	4.520	.000	22.59	55.11
	19	94.56	3.859	.000	80.67	108.45
	20	86.59	3.833	.000	72.80	100.39
	21	18.44	4.844	.024	1.02	35.86
	22	13.40	5.119	.539	-5.02	31.82
2	1	-12.81	5.243	.676	-31.68	6.05
	3	-3.88	4.676	1.000	-20.71	12.94
	4	-4.92	4.827	1.000	-22.28	12.45
	5	-73.59	6.639	.000	-97.49	-49.69
	6	-53.54	6.682	.000	-77.62	-29.47
	7	30.01	4.574	.000	13.54	46.47
	8	33.22	4.560	.000	16.80	49.63
	9	66.48	4.259	.000	51.15	81.81
	10	59.83	4.181	.000	44.78	74.88
	11	62.98	4.351	.000	47.32	78.65
	12	56.79	4.350	.000	41.13	72.45
	13	34.68	5.272	.000	15.71	53.65
	14	28.27	5.570	.000	8.22	48.33
	15	19.71	4.331	.001	4.12	35.30
	16	17.05	4.430	.021	1.10	32.99
	17	45.57	4.474	.000	29.47	61.68
	18	26.04	4.640	.000	9.34	42.74
	19	81.75	3.999	.000	67.34	96.15
	20	73.78	3.974	.000	59.46	88.09
	21	5.63	4.956	1.000	-12.21	23.46
	22	.59	5.226	1.000	-18.22	19.39
3	1	-8.93	4.557	.941	-25.32	7.46
	2	3.88	4.676	1.000	-12.94	20.71
	4	-1.03	4.071	1.000	-15.67	13.61
	5	-69.71	6.111	.000	-91.72	-47.69
	6	-49.66	6.158	.000	-71.86	-27.45
	7	33.89	3.768	.000	20.34	47.44
	8	37.10	3.751	.000	23.61	50.59
	9	70.36	3.379	.000	58.21	82.51
	10	63.71	3.279	.000	51.92	75.51
	11	66.87	3.494	.000	54.31	79.43
	12	60.67	3.492	.000	48.11	73.23
	13	38.56	4.590	.000	22.05	55.08
	14	32.16	4.930	.000	14.40	49.91
	15	23.59	3.468	.000	11.12	36.06
	16	20.93	3.591	.000	8.02	33.84
	17	49.46	3.646	.000	36.35	62.57
	18	29.92	3.848	.000	16.09	43.76
	19	85.63	3.044	.000	74.68	96.58
	20	77.66	3.010	.000	66.83	88.49
	21	9.51	4.224	.809	-5.68	24.70
	22	4.47	4.537	1.000	-11.85	20.79
4	1	-7.90	4.711	.989	-24.85	9.05
	2	4.92	4.827	1.000	-12.45	22.28

	3	1.03	4.071	1.000	-13.61	15.67
	5	-68.68	6.227	.000	-91.10	-46.25
	6	-48.63	6.273	.000	-71.24	-26.01
	7	34.92	3.953	.000	20.70	49.14
	8	38.13	3.937	.000	23.97	52.29
	9	71.39	3.584	.000	58.50	84.29
	10	64.74	3.491	.000	52.19	77.30
	11	67.90	3.692	.000	54.62	81.18
	12	61.70	3.691	.000	48.42	74.98
	13	39.60	4.744	.000	22.53	56.66
	14	33.19	5.073	.000	14.92	51.46
	15	24.62	3.669	.000	11.43	37.82
	16	21.96	3.785	.000	8.35	35.57
	17	50.49	3.837	.000	36.69	64.29
	18	30.95	4.029	.000	16.46	45.45
	19	86.66	3.270	.000	74.89	98.43
	20	78.69	3.239	.000	67.04	90.35
	21	10.54	4.390	.707	-5.25	26.33
	22	5.50	4.692	1.000	-11.38	22.38
5	1	60.78	6.555	.000	37.17	84.38
	2	73.59	6.639	.000	49.69	97.49
	3	69.71	6.111	.000	47.69	91.72
	4	68.68	6.227	.000	46.25	91.10
	6	20.05	7.754	.565	-7.88	47.98
	7	103.60	6.034	.000	81.86	125.33
	8	106.81	6.023	.000	85.11	128.51
	9	140.07	5.798	.000	119.17	160.97
	10	133.42	5.741	.000	112.72	154.12
	11	136.57	5.866	.000	115.43	157.71
	12	130.38	5.865	.000	109.24	151.52
	13	108.27	6.579	.000	84.58	131.96
	14	101.87	6.820	.000	77.31	126.42
	15	93.30	5.851	.000	72.21	114.38
	16	90.64	5.925	.000	69.29	111.99
	17	119.17	5.958	.000	97.70	140.63
	18	99.63	6.084	.000	77.71	121.55
	19	155.34	5.610	.000	135.11	175.57
	20	147.37	5.592	.000	127.20	167.53
	21	79.22	6.328	.000	56.43	102.01
	22	74.18	6.541	.000	50.62	97.73
6	1	40.73	6.599	.000	16.95	64.51
	2	53.54	6.682	.000	29.47	77.62
	3	49.66	6.158	.000	27.45	71.86
	4	48.63	6.273	.000	26.01	71.24
	5	-20.05	7.754	.565	-47.98	7.88
	7	83.55	6.081	.000	61.62	105.48
	8	86.76	6.071	.000	64.86	108.65
	9	120.02	5.848	.000	98.92	141.12
	10	113.37	5.791	.000	92.47	134.27
	11	116.53	5.915	.000	95.19	137.86
	12	110.33	5.914	.000	88.99	131.67
	13	88.22	6.622	.000	64.36	112.08
	14	81.82	6.862	.000	57.09	106.54
	15	73.25	5.900	.000	51.96	94.53
	16	70.59	5.973	.000	49.04	92.13
	17	99.12	6.006	.000	77.45	120.78
	18	79.58	6.131	.000	57.47	101.69

	19	135.29	5.661	.000	114.85	155.73
	20	127.32	5.643	.000	106.94	147.69
	21	59.17	6.373	.000	36.20	82.14
	22	54.13	6.585	.000	30.40	77.86
7	1	-42.82	4.452	.000	-58.84	-26.80
	2	-30.01	4.574	.000	-46.47	-13.54
	3	-33.89	3.768	.000	-47.44	-20.34
	4	-34.92	3.953	.000	-49.14	-20.70
	5	-103.60	6.034	.000	-125.33	-81.86
	6	-83.55	6.081	.000	-105.48	-61.62
	8	3.21	3.624	1.000	-9.82	16.24
	9	36.47	3.236	.000	24.84	48.11
	10	29.82	3.133	.000	18.56	41.09
	11	32.98	3.356	.000	20.91	45.05
	12	26.78	3.355	.000	14.72	38.85
	13	4.67	4.487	1.000	-11.47	20.82
	14	-1.73	4.833	1.000	-19.14	15.68
	15	-10.30	3.330	.212	-22.27	1.67
	16	-12.96	3.457	.030	-25.39	-.53
	17	15.57	3.514	.002	2.93	28.20
	18	-3.97	3.724	1.000	-17.36	9.42
	19	51.74	2.885	.000	41.36	62.12
	20	43.77	2.850	.000	33.52	54.02
	21	-24.38	4.111	.000	-39.16	-9.60
	22	-29.42	4.432	.000	-45.37	-13.47
8	1	-46.03	4.438	.000	-62.00	-30.06
	2	-33.22	4.560	.000	-49.63	-16.80
	3	-37.10	3.751	.000	-50.59	-23.61
	4	-38.13	3.937	.000	-52.29	-23.97
	5	-106.81	6.023	.000	-128.51	-85.11
	6	-86.76	6.071	.000	-108.65	-64.86
	7	-3.21	3.624	1.000	-16.24	9.82
	9	33.26	3.217	.000	21.69	44.83
	10	26.61	3.112	.000	15.42	37.81
	11	29.77	3.337	.000	17.77	41.77
	12	23.57	3.336	.000	11.57	35.57
	13	1.46	4.473	1.000	-14.63	17.56
	14	-4.94	4.820	1.000	-22.31	12.42
	15	-13.51	3.311	.009	-25.42	-1.60
	16	-16.17	3.439	.001	-28.54	-3.80
	17	12.36	3.496	.061	-.21	24.93
	18	-7.18	3.706	.947	-20.51	6.15
	19	48.53	2.863	.000	38.23	58.83
	20	40.56	2.827	.000	30.39	50.74
	21	-27.59	4.095	.000	-42.32	-12.86
	22	-32.63	4.417	.000	-48.53	-16.73
9	1	-79.29	4.128	.000	-94.15	-64.44
	2	-66.48	4.259	.000	-81.81	-51.15
	3	-70.36	3.379	.000	-82.51	-58.21
	4	-71.39	3.584	.000	-84.29	-58.50
	5	-140.07	5.798	.000	-160.97	-119.17
	6	-120.02	5.848	.000	-141.12	-98.92
	7	-36.47	3.236	.000	-48.11	-24.84
	8	-33.26	3.217	.000	-44.83	-21.69
	10	-6.65	2.652	.626	-16.18	2.88
	11	-3.50	2.912	1.000	-13.97	6.97
	12	-9.69	2.911	.113	-20.16	.77

	13	-31.80	4.165	.000	-46.79	-16.81
	14	-38.20	4.536	.000	-54.56	-21.85
	15	-46.77	2.882	.000	-57.13	-36.41
	16	-49.43	3.028	.000	-60.32	-38.54
	17	-20.90	3.093	.000	-32.02	-9.78
	18	-40.44	3.329	.000	-52.41	-28.47
	19	15.27	2.354	.000	6.80	23.73
	20	7.30	2.311	.180	-1.01	15.60
	21	-60.85	3.757	.000	-74.37	-47.34
	22	-65.89	4.106	.000	-80.67	-51.11
10	1	-72.64	4.047	.000	-87.21	-58.08
	2	-59.83	4.181	.000	-74.88	-44.78
	3	-63.71	3.279	.000	-75.51	-51.92
	4	-64.74	3.491	.000	-77.30	-52.19
	5	-133.42	5.741	.000	-154.12	-112.72
	6	-113.37	5.791	.000	-134.27	-92.47
	7	-29.82	3.133	.000	-41.09	-18.56
	8	-26.61	3.112	.000	-37.81	-15.42
	9	6.65	2.652	.626	-2.88	16.18
	11	3.15	2.796	1.000	-6.90	13.21
	12	-3.04	2.795	1.000	-13.09	7.01
	13	-25.15	4.085	.000	-39.86	-10.44
	14	-31.55	4.463	.000	-47.65	-15.46
	15	-40.12	2.765	.000	-50.06	-30.18
	16	-42.78	2.917	.000	-53.27	-32.29
	17	-14.25	2.984	.000	-24.98	-3.52
	18	-33.79	3.228	.000	-45.40	-22.18
	19	21.92	2.209	.000	13.97	29.86
	20	13.95	2.163	.000	6.17	21.72
	21	-54.20	3.668	.000	-67.40	-41.01
	22	-59.24	4.025	.000	-73.73	-44.75
11	1	-75.80	4.223	.000	-90.99	-60.61
	2	-62.98	4.351	.000	-78.65	-47.32
	3	-66.87	3.494	.000	-79.43	-54.31
	4	-67.90	3.692	.000	-81.18	-54.62
	5	-136.57	5.866	.000	-157.71	-115.43
	6	-116.53	5.915	.000	-137.86	-95.19
	7	-32.98	3.356	.000	-45.05	-20.91
	8	-29.77	3.337	.000	-41.77	-17.77
	9	3.50	2.912	1.000	-6.97	13.97
	10	-3.15	2.796	1.000	-13.21	6.90
	12	-6.20	3.043	.915	-17.14	4.75
	13	-28.30	4.259	.000	-43.63	-12.97
	14	-34.71	4.622	.000	-51.37	-18.05
	15	-43.28	3.016	.000	-54.12	-32.44
	16	-45.94	3.156	.000	-57.29	-34.59
	17	-17.41	3.218	.000	-28.98	-5.84
	18	-36.95	3.445	.000	-49.34	-24.55
	19	18.76	2.516	.000	9.72	27.81
	20	10.79	2.475	.003	1.89	19.70
	21	-57.36	3.861	.000	-71.24	-43.47
	22	-62.40	4.201	.000	-77.52	-47.28
12	1	-69.60	4.222	.000	-84.79	-54.41
	2	-56.79	4.350	.000	-72.45	-41.13
	3	-60.67	3.492	.000	-73.23	-48.11
	4	-61.70	3.691	.000	-74.98	-48.42
	5	-130.38	5.865	.000	-151.52	-109.24

	6	-110.33	5.914	.000	-131.67	-88.99
	7	-26.78	3.355	.000	-38.85	-14.72
	8	-23.57	3.336	.000	-35.57	-11.57
	9	9.69	2.911	.113	-.77	20.16
	10	3.04	2.795	1.000	-7.01	13.09
	11	6.20	3.043	.915	-4.75	17.14
	13	-22.11	4.258	.000	-37.43	-6.78
	14	-28.51	4.621	.000	-45.17	-11.86
	15	-37.08	3.014	.000	-47.92	-26.24
	16	-39.74	3.154	.000	-51.09	-28.40
	17	-11.21	3.217	.071	-22.78	.35
	18	-30.75	3.444	.000	-43.14	-18.36
	19	24.96	2.514	.000	15.91	34.01
	20	16.99	2.474	.000	8.09	25.89
	21	-51.16	3.859	.000	-65.04	-37.28
	22	-56.20	4.200	.000	-71.32	-41.08
13	1	-47.49	5.167	.000	-66.08	-28.91
	2	-34.68	5.272	.000	-53.65	-15.71
	3	-38.56	4.590	.000	-55.08	-22.05
	4	-39.60	4.744	.000	-56.66	-22.53
	5	-108.27	6.579	.000	-131.96	-84.58
	6	-88.22	6.622	.000	-112.08	-64.36
	7	-4.67	4.487	1.000	-20.82	11.47
	8	-1.46	4.473	1.000	-17.56	14.63
	9	31.80	4.165	.000	16.81	46.79
	10	25.15	4.085	.000	10.44	39.86
	11	28.30	4.259	.000	12.97	43.63
	12	22.11	4.258	.000	6.78	37.43
	14	-6.41	5.498	1.000	-26.20	13.39
	15	-14.97	4.238	.062	-30.23	.28
	16	-17.63	4.339	.009	-33.25	-2.02
	17	10.89	4.384	.644	-4.88	26.67
	18	-8.64	4.554	.957	-25.03	7.74
	19	47.07	3.898	.000	33.03	61.11
	20	39.10	3.872	.000	25.15	53.04
	21	-29.05	4.875	.000	-46.60	-11.51
	22	-34.09	5.149	.000	-52.62	-15.57
14	1	-41.09	5.471	.000	-60.78	-21.39
	2	-28.27	5.570	.000	-48.33	-8.22
	3	-32.16	4.930	.000	-49.91	-14.40
	4	-33.19	5.073	.000	-51.46	-14.92
	5	-101.87	6.820	.000	-126.42	-77.31
	6	-81.82	6.862	.000	-106.54	-57.09
	7	1.73	4.833	1.000	-15.68	19.14
	8	4.94	4.820	1.000	-12.42	22.31
	9	38.20	4.536	.000	21.85	54.56
	10	31.55	4.463	.000	15.46	47.65
	11	34.71	4.622	.000	18.05	51.37
	12	28.51	4.621	.000	11.86	45.17
	13	6.41	5.498	1.000	-13.39	26.20
	15	-8.57	4.603	.964	-25.16	8.02
	16	-11.23	4.696	.715	-28.15	5.69
	17	17.30	4.738	.043	.23	34.37
	18	-2.24	4.896	1.000	-19.87	15.40
	19	53.47	4.293	.000	37.99	68.96
	20	45.50	4.269	.000	30.10	60.90
	21	-22.65	5.196	.003	-41.36	-3.94

	22	-27.69	5.454	.000	-47.33	-8.05
15	1	-32.52	4.202	.000	-47.64	-17.40
	2	-19.71	4.331	.001	-35.30	-4.12
	3	-23.59	3.468	.000	-36.06	-11.12
	4	-24.62	3.669	.000	-37.82	-11.43
	5	-93.30	5.851	.000	-114.38	-72.21
	6	-73.25	5.900	.000	-94.53	-51.96
	7	10.30	3.330	.212	-1.67	22.27
	8	13.51	3.311	.009	1.60	25.42
	9	46.77	2.882	.000	36.41	57.13
	10	40.12	2.765	.000	30.18	50.06
	11	43.28	3.016	.000	32.44	54.12
	12	37.08	3.014	.000	26.24	47.92
	13	14.97	4.238	.062	-.28	30.23
	14	8.57	4.603	.964	-8.02	25.16
	16	-2.66	3.128	1.000	-13.91	8.59
	17	25.87	3.191	.000	14.40	37.34
	18	6.33	3.420	.966	-5.97	18.63
	19	62.04	2.481	.000	53.12	70.96
	20	54.07	2.440	.000	45.30	62.84
	21	-14.08	3.838	.039	-27.88	-.27
	22	-19.12	4.180	.001	-34.17	-4.07
16	1	-29.86	4.304	.000	-45.34	-14.38
	2	-17.05	4.430	.021	-32.99	-1.10
	3	-20.93	3.591	.000	-33.84	-8.02
	4	-21.96	3.785	.000	-35.57	-8.35
	5	-90.64	5.925	.000	-111.99	-69.29
	6	-70.59	5.973	.000	-92.13	-49.04
	7	12.96	3.457	.030	.53	25.39
	8	16.17	3.439	.001	3.80	28.54
	9	49.43	3.028	.000	38.54	60.32
	10	42.78	2.917	.000	32.29	53.27
	11	45.94	3.156	.000	34.59	57.29
	12	39.74	3.154	.000	28.40	51.09
	13	17.63	4.339	.009	2.02	33.25
	14	11.23	4.696	.715	-5.69	28.15
	15	2.66	3.128	1.000	-8.59	13.91
	17	28.53	3.323	.000	16.58	40.48
	18	8.99	3.544	.603	-3.75	21.74
	19	64.70	2.650	.000	55.17	74.23
	20	56.73	2.611	.000	47.34	66.12
	21	-11.42	3.949	.332	-25.62	2.78
	22	-16.46	4.282	.021	-31.87	-1.05
17	1	-58.39	4.349	.000	-74.03	-42.74
	2	-45.57	4.474	.000	-61.68	-29.47
	3	-49.46	3.646	.000	-62.57	-36.35
	4	-50.49	3.837	.000	-64.29	-36.69
	5	-119.17	5.958	.000	-140.63	-97.70
	6	-99.12	6.006	.000	-120.78	-77.45
	7	-15.57	3.514	.002	-28.20	-2.93
	8	-12.36	3.496	.061	-24.93	.21
	9	20.90	3.093	.000	9.78	32.02
	10	14.25	2.984	.000	3.52	24.98
	11	17.41	3.218	.000	5.84	28.98
	12	11.21	3.217	.071	-.35	22.78
	13	-10.89	4.384	.644	-26.67	4.88
	14	-17.30	4.738	.043	-34.37	-.23

	15	-25.87	3.191	.000	-37.34	-14.40
	16	-28.53	3.323	.000	-40.48	-16.58
	18	-19.54	3.599	.000	-32.48	-6.59
	19	36.17	2.723	.000	26.38	45.97
	20	28.20	2.686	.000	18.54	37.86
	21	-39.95	3.999	.000	-54.33	-25.57
	22	-44.99	4.328	.000	-60.56	-29.41
18	1	-38.85	4.520	.000	-55.11	-22.59
	2	-26.04	4.640	.000	-42.74	-9.34
	3	-29.92	3.848	.000	-43.76	-16.09
	4	-30.95	4.029	.000	-45.45	-16.46
	5	-99.63	6.084	.000	-121.55	-77.71
	6	-79.58	6.131	.000	-101.69	-57.47
	7	3.97	3.724	1.000	-9.42	17.36
	8	7.18	3.706	.947	-6.15	20.51
	9	40.44	3.329	.000	28.47	52.41
	10	33.79	3.228	.000	22.18	45.40
	11	36.95	3.445	.000	24.55	49.34
	12	30.75	3.444	.000	18.36	43.14
	13	8.64	4.554	.957	-7.74	25.03
	14	2.24	4.896	1.000	-15.40	19.87
	15	-6.33	3.420	.966	-18.63	5.97
	16	-8.99	3.544	.603	-21.74	3.75
	17	19.54	3.599	.000	6.59	32.48
	19	55.71	2.989	.000	44.96	66.46
	20	47.74	2.954	.000	37.11	58.37
	21	-20.41	4.184	.000	-35.46	-5.36
	22	-25.45	4.500	.000	-41.65	-9.26
19	1	-94.56	3.859	.000	-108.45	-80.67
	2	-81.75	3.999	.000	-96.15	-67.34
	3	-85.63	3.044	.000	-96.58	-74.68
	4	-86.66	3.270	.000	-98.43	-74.89
	5	-155.34	5.610	.000	-175.57	-135.11
	6	-135.29	5.661	.000	-155.73	-114.85
	7	-51.74	2.885	.000	-62.12	-41.36
	8	-48.53	2.863	.000	-58.83	-38.23
	9	-15.27	2.354	.000	-23.73	-6.80
	10	-21.92	2.209	.000	-29.86	-13.97
	11	-18.76	2.516	.000	-27.81	-9.72
	12	-24.96	2.514	.000	-34.01	-15.91
	13	-47.07	3.898	.000	-61.11	-33.03
	14	-53.47	4.293	.000	-68.96	-37.99
	15	-62.04	2.481	.000	-70.96	-53.12
	16	-64.70	2.650	.000	-74.23	-55.17
	17	-36.17	2.723	.000	-45.97	-26.38
	18	-55.71	2.989	.000	-66.46	-44.96
	20	-7.97	1.786	.002	-14.39	-1.55
	21	-76.12	3.459	.000	-88.57	-63.67
	22	-81.16	3.835	.000	-94.97	-67.35
20	1	-86.59	3.833	.000	-100.39	-72.80
	2	-73.78	3.974	.000	-88.09	-59.46
	3	-77.66	3.010	.000	-88.49	-66.83
	4	-78.69	3.239	.000	-90.35	-67.04
	5	-147.37	5.592	.000	-167.53	-127.20
	6	-127.32	5.643	.000	-147.69	-106.94
	7	-43.77	2.850	.000	-54.02	-33.52
	8	-40.56	2.827	.000	-50.74	-30.39

		9	-7.30	2.311	.180	-15.60	1.01
		10	-13.95	2.163	.000	-21.72	-6.17
		11	-10.79	2.475	.003	-19.70	-1.89
		12	-16.99	2.474	.000	-25.89	-8.09
		13	-39.10	3.872	.000	-53.04	-25.15
		14	-45.50	4.269	.000	-60.90	-30.10
		15	-54.07	2.440	.000	-62.84	-45.30
		16	-56.73	2.611	.000	-66.12	-47.34
		17	-28.20	2.686	.000	-37.86	-18.54
		18	-47.74	2.954	.000	-58.37	-37.11
		19	7.97	1.786	.002	1.55	14.39
		21	-68.15	3.430	.000	-80.49	-55.81
		22	-73.19	3.809	.000	-86.91	-59.47
21		1	-18.44	4.844	.024	-35.86	-1.02
		2	-5.63	4.956	1.000	-23.46	12.21
		3	-9.51	4.224	.809	-24.70	5.68
		4	-10.54	4.390	.707	-26.33	5.25
		5	-79.22	6.328	.000	-102.01	-56.43
		6	-59.17	6.373	.000	-82.14	-36.20
		7	24.38	4.111	.000	9.60	39.16
		8	27.59	4.095	.000	12.86	42.32
		9	60.85	3.757	.000	47.34	74.37
		10	54.20	3.668	.000	41.01	67.40
		11	57.36	3.861	.000	43.47	71.24
		12	51.16	3.859	.000	37.28	65.04
		13	29.05	4.875	.000	11.51	46.60
		14	22.65	5.196	.003	3.94	41.36
		15	14.08	3.838	.039	.27	27.88
		16	11.42	3.949	.332	-2.78	25.62
		17	39.95	3.999	.000	25.57	54.33
		18	20.41	4.184	.000	5.36	35.46
		19	76.12	3.459	.000	63.67	88.57
		20	68.15	3.430	.000	55.81	80.49
		22	-5.04	4.825	1.000	-22.40	12.32
22		1	-13.40	5.119	.539	-31.82	5.02
		2	-.59	5.226	1.000	-19.39	18.22
		3	-4.47	4.537	1.000	-20.79	11.85
		4	-5.50	4.692	1.000	-22.38	11.38
		5	-74.18	6.541	.000	-97.73	-50.62
		6	-54.13	6.585	.000	-77.86	-30.40
		7	29.42	4.432	.000	13.47	45.37
		8	32.63	4.417	.000	16.73	48.53
		9	65.89	4.106	.000	51.11	80.67
		10	59.24	4.025	.000	44.75	73.73
		11	62.40	4.201	.000	47.28	77.52
		12	56.20	4.200	.000	41.08	71.32
		13	34.09	5.149	.000	15.57	52.62
		14	27.69	5.454	.000	8.05	47.33
		15	19.12	4.180	.001	4.07	34.17
		16	16.46	4.282	.021	1.05	31.87
		17	44.99	4.328	.000	29.41	60.56
		18	25.45	4.500	.000	9.26	41.65
		19	81.16	3.835	.000	67.35	94.97
		20	73.19	3.809	.000	59.47	86.91
		21	5.04	4.825	1.000	-12.32	22.40
Y8	1	2	8.21	4.241	.947	-7.05	23.47
		3	-.50	3.763	1.000	-14.04	13.03

	4	4.29	3.975	1.000	-10.00	18.59
	5	-18.90	5.092	.034	-37.23	-.57
	6	-24.49	5.437	.002	-44.08	-4.90
	7	25.25	3.762	.000	11.72	38.78
	8	33.30	3.726	.000	19.90	46.70
	9	63.06	3.458	.000	50.62	75.50
	10	59.89	3.346	.000	47.85	71.93
	11	53.52	3.574	.000	40.66	66.37
	12	60.36	3.555	.000	47.57	73.15
	13	26.18	4.334	.000	10.59	41.78
	14	30.32	4.598	.000	13.77	46.87
	15	19.95	3.482	.000	7.43	32.48
	16	21.38	3.578	.000	8.51	34.25
	17	37.94	3.620	.000	24.92	50.96
	18	33.04	3.695	.000	19.74	46.33
	19	70.78	3.218	.000	59.20	82.36
	20	70.10	3.177	.000	58.67	81.53
	21	9.76	4.115	.729	-5.04	24.56
	22	14.42	4.224	.089	-.78	29.61
2	1	-8.21	4.241	.947	-23.47	7.05
	3	-8.71	3.805	.785	-22.41	4.98
	4	-3.92	4.015	1.000	-18.36	10.53
	5	-27.11	5.123	.000	-45.56	-8.67
	6	-32.70	5.466	.000	-52.40	-13.00
	7	17.04	3.804	.002	3.36	30.73
	8	25.09	3.769	.000	11.53	38.65
	9	54.85	3.504	.000	42.24	67.46
	10	51.68	3.393	.000	39.46	63.90
	11	45.31	3.619	.000	32.28	58.33
	12	52.15	3.600	.000	39.20	65.11
	13	17.97	4.371	.008	2.25	33.70
	14	22.11	4.633	.000	5.43	38.79
	15	11.74	3.528	.114	-.95	24.44
	16	13.17	3.622	.044	.13	26.21
	17	29.73	3.664	.000	16.54	42.91
	18	24.83	3.739	.000	11.37	38.28
	19	62.57	3.267	.000	50.81	74.34
	20	61.89	3.227	.000	50.27	73.51
	21	1.55	4.154	1.000	-13.40	16.49
	22	6.21	4.262	.998	-9.13	21.54
3	1	.50	3.763	1.000	-13.03	14.04
	2	8.71	3.805	.785	-4.98	22.41
	4	4.80	3.506	.999	-7.81	17.41
	5	-18.40	4.735	.019	-35.45	-1.34
	6	-23.99	5.104	.001	-42.39	-5.58
	7	25.76	3.262	.000	14.03	37.49
	8	33.81	3.221	.000	22.22	45.39
	9	63.57	2.906	.000	53.12	74.02
	10	60.39	2.772	.000	50.43	70.36
	11	54.02	3.044	.000	43.08	64.97

	12	60.87	3.022	.000	50.00	71.73
	13	26.69	3.908	.000	12.63	40.75
	14	30.82	4.199	.000	15.70	45.95
	15	20.46	2.935	.000	9.90	31.01
	16	21.89	3.048	.000	10.92	32.85
	17	38.44	3.097	.000	27.31	49.58
	18	33.54	3.185	.000	22.09	45.00
	19	71.29	2.616	.000	61.88	80.70
	20	70.61	2.566	.000	61.38	79.83
	21	10.26	3.664	.397	-2.92	23.44
	22	14.92	3.786	.015	1.30	28.54
4	1	-4.29	3.975	1.000	-18.59	10.00
	2	3.92	4.015	1.000	-10.53	18.36
	3	-4.80	3.506	.999	-17.41	7.81
	5	-23.19	4.905	.001	-40.86	-5.53
	6	-28.78	5.262	.000	-47.75	-9.82
	7	20.96	3.505	.000	8.35	33.56
	8	29.01	3.466	.000	16.54	41.47
	9	58.77	3.176	.000	47.35	70.19
	10	55.60	3.054	.000	44.61	66.58
	11	49.22	3.303	.000	37.34	61.10
	12	56.07	3.282	.000	44.26	67.87
	13	21.89	4.113	.000	7.09	36.69
	14	26.03	4.390	.000	10.22	41.84
	15	15.66	3.203	.000	4.14	27.18
	16	17.09	3.307	.000	5.19	28.98
	17	33.64	3.352	.000	21.59	45.70
	18	28.74	3.433	.000	16.39	41.09
	19	66.49	2.913	.000	56.01	76.97
	20	65.81	2.868	.000	55.49	76.13
	21	5.47	3.882	.999	-8.50	19.43
	22	10.12	3.997	.606	-4.26	24.50
5	1	18.90	5.092	.034	.57	37.23
	2	27.11	5.123	.000	8.67	45.56
	3	18.40	4.735	.019	1.34	35.45
	4	23.19	4.905	.001	5.53	40.86
	6	-5.59	6.149	1.000	-27.74	16.56
	7	44.15	4.734	.000	27.11	61.20
	8	52.20	4.705	.000	35.25	69.15
	9	81.96	4.496	.000	65.77	98.16
	10	78.79	4.410	.000	62.90	94.69
	11	72.42	4.586	.000	55.90	88.94
	12	79.26	4.571	.000	62.79	95.73
	13	45.09	5.200	.000	26.37	63.81
	14	49.22	5.422	.000	29.70	68.75
	15	38.85	4.515	.000	22.59	55.12
	16	40.28	4.589	.000	23.75	56.81
	17	56.84	4.621	.000	40.19	73.49
	18	51.94	4.681	.000	35.08	68.80
	19	89.69	4.314	.000	74.13	105.24

	20	89.00	4.284	.000	73.56	104.45
	21	28.66	5.019	.000	10.59	46.73
	22	33.32	5.108	.000	14.93	51.71
6	1	24.49	5.437	.002	4.90	44.08
	2	32.70	5.466	.000	13.00	52.40
	3	23.99	5.104	.001	5.58	42.39
	4	28.78	5.262	.000	9.82	47.75
	5	5.59	6.149	1.000	-16.56	27.74
	7	49.74	5.103	.000	31.34	68.14
	8	57.79	5.076	.000	39.49	76.10
	9	87.55	4.883	.000	69.94	105.17
	10	84.38	4.804	.000	67.04	101.72
	11	78.01	4.966	.000	60.09	95.92
	12	84.85	4.952	.000	66.99	102.72
	13	50.67	5.538	.000	30.72	70.63
	14	54.81	5.747	.000	34.10	75.52
	15	44.44	4.900	.000	26.77	62.12
	16	45.87	4.969	.000	27.95	63.79
	17	62.43	4.999	.000	44.40	80.46
	18	57.53	5.054	.000	39.30	75.75
	19	95.27	4.716	.000	78.25	112.30
	20	94.59	4.688	.000	77.66	111.52
	21	34.25	5.369	.000	14.90	53.60
	22	38.91	5.452	.000	19.26	58.55
7	1	-25.25	3.762	.000	-38.78	-11.72
	2	-17.04	3.804	.002	-30.73	-3.36
	3	-25.76	3.262	.000	-37.49	-14.03
	4	-20.96	3.505	.000	-33.56	-8.35
	5	-44.15	4.734	.000	-61.20	-27.11
	6	-49.74	5.103	.000	-68.14	-31.34
	8	8.05	3.219	.633	-3.53	19.63
	9	37.81	2.905	.000	27.37	48.25
	10	34.64	2.771	.000	24.67	44.60
	11	28.26	3.043	.000	17.32	39.20
	12	35.11	3.020	.000	24.25	45.97
	13	.93	3.907	1.000	-13.13	14.99
	14	5.07	4.198	1.000	-10.05	20.19
	15	-5.30	2.934	.974	-15.85	5.25
	16	-3.87	3.047	1.000	-14.83	7.08
	17	12.69	3.096	.008	1.55	23.82
	18	7.78	3.184	.675	-3.67	19.23
	19	45.53	2.614	.000	36.13	54.93
	20	44.85	2.564	.000	35.63	54.07
	21	-15.49	3.663	.005	-28.67	-2.32
	22	-10.84	3.784	.352	-24.45	2.78
8	1	-33.30	3.726	.000	-46.70	-19.90
	2	-25.09	3.769	.000	-38.65	-11.53
	3	-33.81	3.221	.000	-45.39	-22.22
	4	-29.01	3.466	.000	-41.47	-16.54
	5	-52.20	4.705	.000	-69.15	-35.25

	6	-57.79	5.076	.000	-76.10	-39.49
	7	-8.05	3.219	.633	-19.63	3.53
	9	29.76	2.858	.000	19.48	40.04
	10	26.59	2.722	.000	16.80	36.38
	11	20.22	2.998	.000	9.43	31.00
	12	27.06	2.975	.000	16.36	37.76
	13	-7.12	3.872	.969	-21.05	6.82
	14	-2.98	4.166	1.000	-17.99	12.03
	15	-13.35	2.888	.001	-23.73	-2.96
	16	-11.92	3.003	.013	-22.72	-1.12
	17	4.64	3.052	.997	-6.34	15.61
	18	-.26	3.142	1.000	-11.56	11.03
	19	37.48	2.563	.000	28.26	46.70
	20	36.80	2.511	.000	27.76	45.84
	21	-23.54	3.626	.000	-36.59	-10.50
	22	-18.88	3.749	.000	-32.37	-5.39
9	1	-63.06	3.458	.000	-75.50	-50.62
	2	-54.85	3.504	.000	-67.46	-42.24
	3	-63.57	2.906	.000	-74.02	-53.12
	4	-58.77	3.176	.000	-70.19	-47.35
	5	-81.96	4.496	.000	-98.16	-65.77
	6	-87.55	4.883	.000	-105.17	-69.94
	7	-37.81	2.905	.000	-48.25	-27.37
	8	-29.76	2.858	.000	-40.04	-19.48
	10	-3.17	2.341	.999	-11.59	5.24
	11	-9.55	2.657	.050	-19.10	.01
	12	-2.70	2.631	1.000	-12.16	6.76
	13	-36.88	3.615	.000	-49.89	-23.87
	14	-32.74	3.928	.000	-46.90	-18.59
	15	-43.11	2.532	.000	-52.21	-34.01
	16	-41.68	2.662	.000	-51.25	-32.11
	17	-25.12	2.718	.000	-34.90	-15.35
	18	-30.03	2.818	.000	-40.16	-19.89
	19	7.72	2.154	.052	-.02	15.46
	20	7.04	2.092	.103	-.49	14.56
	21	-53.30	3.350	.000	-65.36	-41.25
	22	-48.65	3.482	.000	-61.18	-36.11
10	1	-59.89	3.346	.000	-71.93	-47.85
	2	-51.68	3.393	.000	-63.90	-39.46
	3	-60.39	2.772	.000	-70.36	-50.43
	4	-55.60	3.054	.000	-66.58	-44.61
	5	-78.79	4.410	.000	-94.69	-62.90
	6	-84.38	4.804	.000	-101.72	-67.04
	7	-34.64	2.771	.000	-44.60	-24.67
	8	-26.59	2.722	.000	-36.38	-16.80
	9	3.17	2.341	.999	-5.24	11.59
	11	-6.37	2.510	.602	-15.40	2.65
	12	.47	2.483	1.000	-8.46	9.40
	13	-33.70	3.508	.000	-46.34	-21.07
	14	-29.57	3.830	.000	-43.38	-15.76

	15	-39.94	2.377	.000	-48.48	-31.39
	16	-38.51	2.515	.000	-47.55	-29.46
	17	-21.95	2.574	.000	-31.21	-12.69
	18	-26.85	2.680	.000	-36.49	-17.21
	19	10.89	1.969	.000	3.82	17.97
	20	10.21	1.902	.000	3.37	17.05
	21	-50.13	3.234	.000	-61.77	-38.49
	22	-45.47	3.371	.000	-57.61	-33.33
11	1	-53.52	3.574	.000	-66.37	-40.66
	2	-45.31	3.619	.000	-58.33	-32.28
	3	-54.02	3.044	.000	-64.97	-43.08
	4	-49.22	3.303	.000	-61.10	-37.34
	5	-72.42	4.586	.000	-88.94	-55.90
	6	-78.01	4.966	.000	-95.92	-60.09
	7	-28.26	3.043	.000	-39.20	-17.32
	8	-20.22	2.998	.000	-31.00	-9.43
	9	9.55	2.657	.050	-.01	19.10
	10	6.37	2.510	.602	-2.65	15.40
	12	6.85	2.783	.664	-3.16	16.85
	13	-27.33	3.727	.000	-40.74	-13.92
	14	-23.20	4.031	.000	-37.72	-8.67
	15	-33.56	2.689	.000	-43.23	-23.89
	16	-32.14	2.812	.000	-42.25	-22.02
	17	-15.58	2.865	.000	-25.88	-5.28
	18	-20.48	2.960	.000	-31.13	-9.84
	19	17.27	2.337	.000	8.87	25.67
	20	16.58	2.280	.000	8.38	24.78
	21	-43.76	3.470	.000	-56.24	-31.27
	22	-39.10	3.598	.000	-52.05	-26.15
12	1	-60.36	3.555	.000	-73.15	-47.57
	2	-52.15	3.600	.000	-65.11	-39.20
	3	-60.87	3.022	.000	-71.73	-50.00
	4	-56.07	3.282	.000	-67.87	-44.26
	5	-79.26	4.571	.000	-95.73	-62.79
	6	-84.85	4.952	.000	-102.72	-66.99
	7	-35.11	3.020	.000	-45.97	-24.25
	8	-27.06	2.975	.000	-37.76	-16.36
	9	2.70	2.631	1.000	-6.76	12.16
	10	-.47	2.483	1.000	-9.40	8.46
	11	-6.85	2.783	.664	-16.85	3.16
	13	-34.18	3.708	.000	-47.53	-20.83
	14	-30.04	4.014	.000	-44.51	-15.58
	15	-40.41	2.664	.000	-49.99	-30.83
	16	-38.98	2.788	.000	-49.01	-28.96
	17	-22.42	2.841	.000	-32.64	-12.21
	18	-27.33	2.937	.000	-37.89	-16.76
	19	10.42	2.307	.001	2.12	18.72
	20	9.74	2.250	.003	1.64	17.83
	21	-50.60	3.451	.000	-63.02	-38.19
	22	-45.95	3.579	.000	-58.83	-33.06

13	1	-26.18	4.334	.000	-41.78	-10.59
	2	-17.97	4.371	.008	-33.70	-2.25
	3	-26.69	3.908	.000	-40.75	-12.63
	4	-21.89	4.113	.000	-36.69	-7.09
	5	-45.09	5.200	.000	-63.81	-26.37
	6	-50.67	5.538	.000	-70.63	-30.72
	7	-.93	3.907	1.000	-14.99	13.13
	8	7.12	3.872	.969	-6.82	21.05
	9	36.88	3.615	.000	23.87	49.89
	10	33.70	3.508	.000	21.07	46.34
	11	27.33	3.727	.000	13.92	40.74
	12	34.18	3.708	.000	20.83	47.53
	14	4.14	4.718	1.000	-12.85	21.12
	15	-6.23	3.638	.986	-19.33	6.87
	16	-4.80	3.730	1.000	-18.23	8.62
	17	11.75	3.770	.200	-1.81	25.32
	18	6.85	3.843	.978	-6.98	20.68
	19	44.60	3.386	.000	32.41	56.79
	20	43.92	3.347	.000	31.86	55.97
	21	-16.43	4.249	.020	-31.71	-1.14
	22	-11.77	4.354	.472	-27.43	3.90
	14	1	-30.32	4.598	.000	-46.87	-13.77
2		-22.11	4.633	.000	-38.79	-5.43
3		-30.82	4.199	.000	-45.95	-15.70
4		-26.03	4.390	.000	-41.84	-10.22
5		-49.22	5.422	.000	-68.75	-29.70
6		-54.81	5.747	.000	-75.52	-34.10
7		-5.07	4.198	1.000	-20.19	10.05
8		2.98	4.166	1.000	-12.03	17.99
9		32.74	3.928	.000	18.59	46.90
10		29.57	3.830	.000	15.76	43.38
11		23.20	4.031	.000	8.67	37.72
12		30.04	4.014	.000	15.58	44.51
13		-4.14	4.718	1.000	-21.12	12.85
15	-10.37	3.950	.534	-24.60	3.87	
16	-8.94	4.034	.829	-23.48	5.60	
17	7.62	4.071	.962	-7.05	22.29	
18	2.72	4.139	1.000	-12.19	17.63	
19	40.46	3.718	.000	27.05	53.88	
20	39.78	3.683	.000	26.49	53.07	
21	-20.56	4.518	.001	-36.83	-4.29	
22	-15.90	4.617	.082	-32.53	.72	
15	1	-19.95	3.482	.000	-32.48	-7.43
	2	-11.74	3.528	.114	-24.44	.95
	3	-20.46	2.935	.000	-31.01	-9.90
	4	-15.66	3.203	.000	-27.18	-4.14
	5	-38.85	4.515	.000	-55.12	-22.59
	6	-44.44	4.900	.000	-62.12	-26.77
	7	5.30	2.934	.974	-5.25	15.85
	8	13.35	2.888	.001	2.96	23.73

	9	43.11	2.532	.000	34.01	52.21
	10	39.94	2.377	.000	31.39	48.48
	11	33.56	2.689	.000	23.89	43.23
	12	40.41	2.664	.000	30.83	49.99
	13	6.23	3.638	.986	-6.87	19.33
	14	10.37	3.950	.534	-3.87	24.60
	16	1.43	2.694	1.000	-8.26	11.11
	17	17.99	2.749	.000	8.10	27.87
	18	13.08	2.848	.001	2.84	23.33
	19	50.83	2.193	.000	42.95	58.71
	20	50.15	2.133	.000	42.48	57.81
	21	-10.19	3.375	.252	-22.34	1.95
	22	-5.54	3.507	.995	-18.16	7.09
16	1	-21.38	3.578	.000	-34.25	-8.51
	2	-13.17	3.622	.044	-26.21	-1.13
	3	-21.89	3.048	.000	-32.85	-10.92
	4	-17.09	3.307	.000	-28.98	-5.19
	5	-40.28	4.589	.000	-56.81	-23.75
	6	-45.87	4.969	.000	-63.79	-27.95
	7	3.87	3.047	1.000	-7.08	14.83
	8	11.92	3.003	.013	1.12	22.72
	9	41.68	2.662	.000	32.11	51.25
	10	38.51	2.515	.000	29.46	47.55
	11	32.14	2.812	.000	22.02	42.25
	12	38.98	2.788	.000	28.96	49.01
	13	4.80	3.730	1.000	-8.62	18.23
	14	8.94	4.034	.829	-5.60	23.48
	15	-1.43	2.694	1.000	-11.11	8.26
	17	16.56	2.870	.000	6.24	26.88
	18	11.66	2.965	.015	.99	22.32
	19	49.40	2.342	.000	40.98	57.83
	20	48.72	2.286	.000	40.50	56.94
	21	-11.62	3.474	.109	-24.12	.87
	22	-6.96	3.602	.948	-19.93	6.00
17	1	-37.94	3.620	.000	-50.96	-24.92
	2	-29.73	3.664	.000	-42.91	-16.54
	3	-38.44	3.097	.000	-49.58	-27.31
	4	-33.64	3.352	.000	-45.70	-21.59
	5	-56.84	4.621	.000	-73.49	-40.19
	6	-62.43	4.999	.000	-80.46	-44.40
	7	-12.69	3.096	.008	-23.82	-1.55
	8	-4.64	3.052	.997	-15.61	6.34
	9	25.12	2.718	.000	15.35	34.90
	10	21.95	2.574	.000	12.69	31.21
	11	15.58	2.865	.000	5.28	25.88
	12	22.42	2.841	.000	12.21	32.64
	13	-11.75	3.770	.200	-25.32	1.81
	14	-7.62	4.071	.962	-22.29	7.05
	15	-17.99	2.749	.000	-27.87	-8.10
	16	-16.56	2.870	.000	-26.88	-6.24

	18	-4.90	3.015	.993	-15.74	5.94
	19	32.85	2.405	.000	24.20	41.49
	20	32.16	2.351	.000	23.71	40.61
	21	-28.18	3.517	.000	-40.83	-15.53
	22	-23.52	3.643	.000	-36.63	-10.41
18	1	-33.04	3.695	.000	-46.33	-19.74
	2	-24.83	3.739	.000	-38.28	-11.37
	3	-33.54	3.185	.000	-45.00	-22.09
	4	-28.74	3.433	.000	-41.09	-16.39
	5	-51.94	4.681	.000	-68.80	-35.08
	6	-57.53	5.054	.000	-75.75	-39.30
	7	-7.78	3.184	.675	-19.23	3.67
	8	.26	3.142	1.000	-11.03	11.56
	9	30.03	2.818	.000	19.89	40.16
	10	26.85	2.680	.000	17.21	36.49
	11	20.48	2.960	.000	9.84	31.13
	12	27.33	2.937	.000	16.76	37.89
	13	-6.85	3.843	.978	-20.68	6.98
	14	-2.72	4.139	1.000	-17.63	12.19
	15	-13.08	2.848	.001	-23.33	-2.84
	16	-11.66	2.965	.015	-22.32	-.99
	17	4.90	3.015	.993	-5.94	15.74
	19	37.75	2.518	.000	28.69	46.80
	20	37.06	2.466	.000	28.19	45.93
	21	-23.28	3.595	.000	-36.21	-10.35
	22	-18.62	3.718	.000	-32.00	-5.24
19	1	-70.78	3.218	.000	-82.36	-59.20
	2	-62.57	3.267	.000	-74.34	-50.81
	3	-71.29	2.616	.000	-80.70	-61.88
	4	-66.49	2.913	.000	-76.97	-56.01
	5	-89.69	4.314	.000	-105.24	-74.13
	6	-95.27	4.716	.000	-112.30	-78.25
	7	-45.53	2.614	.000	-54.93	-36.13
	8	-37.48	2.563	.000	-46.70	-28.26
	9	-7.72	2.154	.052	-15.46	.02
	10	-10.89	1.969	.000	-17.97	-3.82
	11	-17.27	2.337	.000	-25.67	-8.87
	12	-10.42	2.307	.001	-18.72	-2.12
	13	-44.60	3.386	.000	-56.79	-32.41
	14	-40.46	3.718	.000	-53.88	-27.05
	15	-50.83	2.193	.000	-58.71	-42.95
	16	-49.40	2.342	.000	-57.83	-40.98
	17	-32.85	2.405	.000	-41.49	-24.20
	18	-37.75	2.518	.000	-46.80	-28.69
	20	-.68	1.666	1.000	-6.67	5.30
	21	-61.02	3.102	.000	-72.19	-49.86
	22	-56.37	3.244	.000	-68.05	-44.68
20	1	-70.10	3.177	.000	-81.53	-58.67
	2	-61.89	3.227	.000	-73.51	-50.27
	3	-70.61	2.566	.000	-79.83	-61.38

	4	-65.81	2.868	.000	-76.13	-55.49
	5	-89.00	4.284	.000	-104.45	-73.56
	6	-94.59	4.688	.000	-111.52	-77.66
	7	-44.85	2.564	.000	-54.07	-35.63
	8	-36.80	2.511	.000	-45.84	-27.76
	9	-7.04	2.092	.103	-14.56	.49
	10	-10.21	1.902	.000	-17.05	-3.37
	11	-16.58	2.280	.000	-24.78	-8.38
	12	-9.74	2.250	.003	-17.83	-1.64
	13	-43.92	3.347	.000	-55.97	-31.86
	14	-39.78	3.683	.000	-53.07	-26.49
	15	-50.15	2.133	.000	-57.81	-42.48
	16	-48.72	2.286	.000	-56.94	-40.50
	17	-32.16	2.351	.000	-40.61	-23.71
	18	-37.06	2.466	.000	-45.93	-28.19
	19	.68	1.666	1.000	-5.30	6.67
	21	-60.34	3.059	.000	-71.35	-49.33
	22	-55.68	3.204	.000	-67.22	-44.14
21	1	-9.76	4.115	.729	-24.56	5.04
	2	-1.55	4.154	1.000	-16.49	13.40
	3	-10.26	3.664	.397	-23.44	2.92
	4	-5.47	3.882	.999	-19.43	8.50
	5	-28.66	5.019	.000	-46.73	-10.59
	6	-34.25	5.369	.000	-53.60	-14.90
	7	15.49	3.663	.005	2.32	28.67
	8	23.54	3.626	.000	10.50	36.59
	9	53.30	3.350	.000	41.25	65.36
	10	50.13	3.234	.000	38.49	61.77
	11	43.76	3.470	.000	31.27	56.24
	12	50.60	3.451	.000	38.19	63.02
	13	16.43	4.249	.020	1.14	31.71
	14	20.56	4.518	.001	4.29	36.83
	15	10.19	3.375	.252	-1.95	22.34
	16	11.62	3.474	.109	-.87	24.12
	17	28.18	3.517	.000	15.53	40.83
	18	23.28	3.595	.000	10.35	36.21
	19	61.02	3.102	.000	49.86	72.19
	20	60.34	3.059	.000	49.33	71.35
	22	4.66	4.136	1.000	-10.22	19.54
22	1	-14.42	4.224	.089	-29.61	.78
	2	-6.21	4.262	.998	-21.54	9.13
	3	-14.92	3.786	.015	-28.54	-1.30
	4	-10.12	3.997	.606	-24.50	4.26
	5	-33.32	5.108	.000	-51.71	-14.93
	6	-38.91	5.452	.000	-58.55	-19.26
	7	10.84	3.784	.352	-2.78	24.45
	8	18.88	3.749	.000	5.39	32.37
	9	48.65	3.482	.000	36.11	61.18
	10	45.47	3.371	.000	33.33	57.61
	11	39.10	3.598	.000	26.15	52.05

12	45.95	3.579	.000	33.06	58.83
13	11.77	4.354	.472	-3.90	27.43
14	15.90	4.617	.082	-.72	32.53
15	5.54	3.507	.995	-7.09	18.16
16	6.96	3.602	.948	-6.00	19.93
17	23.52	3.643	.000	10.41	36.63
18	18.62	3.718	.000	5.24	32.00
19	56.37	3.244	.000	44.68	68.05
20	55.68	3.204	.000	44.14	67.22
21	-4.66	4.136	1.000	-19.54	10.22

Lampiran 12 Surat Pernyataan**SURAT PERNYATAAN**

Saya yang bertanda tangan di bawah ini, mahasiswa Departemen Statistika FSAD ITS:

Nama : **Nimas Sefrida Andriaswuri**

NRP : **0621164000012**

menyatakan bahwa data yang digunakan dalam Tugas Akhir/ ~~Thesis~~ ini merupakan data sekunder yang diambil dari ~~penelitian / buku / Tugas Akhir / Thesis / publikasi~~ lainnya yaitu :

Sumber : Tim penyelenggara seleksi masuk perguruan tinggi negeri jalur ujian tulis 2019

Keterangan : Data peserta seleksi masuk PTN jalur ujian tulis 2019

Surat Pernyataan ini dibuat dengan sebenarnya. Apabila terdapat pemalsuan data maka saya siap menerima sanksi sesuai aturan yang berlaku.

Mengetahui
Pembimbing Tugas Akhir

Surabaya, 15 Juni 2020



Dr. Dra. Ismaini Zain, M.Si
NIP. 19600525 198803 2 001

Nimas Sefrida Andriaswuri
NRP. 0621164000012

BIODATA PENULIS



Penulis dengan nama lengkap Nimas Seffrida Andriaswuri dilahirkan di Ponorogo pada tanggal 12 September 1997 dari pasangan Bapak Marsono dan Ibu Ninik Syamsiyah. Penulis menempuh Pendidikan formal di SD Muhammadiyah Ponorogo, SMP Negeri 1 Ponorogo, dan SMA Negeri 1 Ponorogo. Setelah lulus SMA penulis diterima sebagai Mahasiswa Departemen Statistika ITS melalui jalur SNMPTN pada tahun 2016.

Selama perkuliahan penulis aktif mengikuti kegiatan di KM ITS. Anak pertama dari dua bersaudara ini pernah bergabung dalam organisasi kemahasiswaan seperti *Staff* Bidang Bisnis KOPMA dr. Angka ITS 2017/2018, *Staff* Departemen Kewirausahaan HIMASTA-ITS 2017/2018, dan Sekretaris 1 HIMASTA-ITS 2018/2019. Selain itu penulis pernah mengikuti beberapa *project* sebagai *job survey* sekaligus entri data sebagai pengaplikasian ilmu statistika. Pada bulan Juli 2019 penulis berkesempatan untuk melakukan kerja praktik di PT Industri Kereta Api (Persero) Kota Madiun dan bulan Maret-Agustus 2020 melakukan *internship program* di Kantor Wilayah Surabaya PT Bank Rakyat Indonesia (Persero) Tbk. Apabila pembaca ingin memberi kritik dan saran serta ingin berdiskusi lebih lanjut mengenai Tugas Akhir ini, dapat menghubungi penulis melalui email : nmdm1234@gmail.com.

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GLOSARIUM

IPB	: Institut Pertanian Bogor
ITB	: Institut Teknologi Bandung
ITS	: Institut Teknologi Sepuluh Nopember
UGM	: Universitas Gadjah Mada
UI	: Universitas Indonesia
UNAIR	: Universitas Airlangga
UNDIP	: Universitas Diponegoro
UNHAS	: Universitas Hasanuddin
UNPAD	: Universitas Padjajaran
UPI	: Universitas Pendidikan Indonesia
USU	: Universitas Sumatra Utara

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