

LAMPIRAN



UNIVERSITAS ESA UNGGUL

FAKULTAS EKONOMI

JURUSAN MANAJEMEN

Yth. Bapak/Ibu

Karyawan Kantor CIMB Niaga Lippo Karawaci

Di Tempat

Dengan hormat,

Dalam rangka memenuhi syarat untuk menyelesaikan program studi Strata satu (S1) Fakultas Ekonomi Universitas Esa Unggul, saya :

Nama : Fadli Hambali

Nim : 2011-11-030

Bermaksud melakukan penelitian dengan cara menggali informasi dari Bapak/Ibu, oleh karena itu kiranya Bapak/Ibu berkenan membantu peneliti untuk menjawab kuesioner ini dengan sejujurnya. Penelitian ini bertujuan untuk melakukan evaluasi kepuasan kerja karyawan.

Kuesioner dibuat semata-mata untuk kepentingan studi dan sama sekali tidak ada sangkut pautnya dengan status Bapak/Ibu dalam pekerjaan ataupun kepentingan lainnya. Saya berkomitmen menjaga kerahasiaan jawaban Bapak/Ibu. Atas bantuan dan kesediaan Bapak/Ibu, saya ucapkan terima kasih.

BAGIAN 1 : DATA RESPONDEN

Pilihlah salah satu jawaban pada setiap pertanyaan berikut ini dengan memberikan tanda silang (X).

1. Jenis Kelamin :

- a. Laki-Laki
- b. Perempuan

2. Pendidikan Terakhir :

- a. SLTA c. S1 e. S3
- b. D3 d. S2

3. Jabatan :

4. Lama Bekerja :

- a. Kurang lebih 2 tahun c. 5,1 – 10 tahun
- b. 2,1 – 5 tahun d. 10,1 - 15 tahun
- e. 15 tahun ke atas

5. Usia anda Saat ini :

- a. 20 – 25 Tahun c. 31 – 35 Tahun e. 40 tahun keatas
- b. 26 – 30 Tahun d. 36 – 40 Tahun

II. PETUNJUK PENGISIAN

Mohon memberi tanda silang (X) pada jawaban yang Bapak/Ibu anggap paling sesuai

STS= Sangat Tidak Setuju

TS= Tidak Setuju

C= Cukup

S= Setuju

SS= Sangat Setuju

| No | Pernyataan | STS | TS | C | S | SS |
|----|--|-----|----|---|---|----|
| 1. | Pemimpin memberikan perhatian kepada semua pegawai | | | | | |
| 2. | Pemimpin memberikan perhatian pada pengembangan karir karyawan | | | | | |
| 3. | Pemimpin selalu memberikan penghargaan kepada pegawai yang berprestasi | | | | | |
| 4. | Pemimpin selalu memberikan penghargaan atas pencapaian kerja karyawan | | | | | |
| 5. | Pemimpin selalu memberi nasehat jika pegawainya tidak melakukan pekerjaannya dengan baik | | | | | |
| 6. | Pemimpin memberikan solusi yang baik untuk masalah pekerjaan kepada saya | | | | | |
| 7. | Pemimpin memberikan motivasi untuk menaikkan semangat pegawai | | | | | |
| 8. | Pemimpin menciptakan peluang agar karyawan termotivasi dalam pengembangan karirnya | | | | | |
| 9. | Pemimpin membuat progress unuk pencapaian | | | | | |

| | | | | | | |
|-----|---|--|--|--|--|--|
| | tujuan perusahaan | | | | | |
| 10. | Pemimpin memberikan motivasi untuk karyawan agar pencapaian tujuan perusahaan tercapai | | | | | |
| 11. | Pemimpin selalu memberikan kemampuan kepada pegawai agar bekerja lebih baik | | | | | |
| 12. | Pemimpin menampilkan kemampuannya dalam mengerjakan pekerjaan dengan baik | | | | | |
| 13. | Pemimpin selalu menciptakan suasana yang kondusif agar kinerja karyawan meningkat | | | | | |
| 14. | Pemimpin selalu memotivasi pegawainya agar berfikir inovatif | | | | | |
| 15. | Pemimpin memberikan ide baru kepada karyawan untuk kemajuan perusahaan | | | | | |
| 16. | Pemimpin melakukan pendekatan personal untuk menyelesaikan suatu permasalahan | | | | | |
| 17. | Pemimpin memberikan penyelesaian masalah dengan demokratis | | | | | |
| 18. | Saya menjadi kebanggan pemimpin dalam bekerja | | | | | |
| 19. | Pemimpin menjadikan karyawan teladan sebagai kebanggaanya | | | | | |
| 20. | Pimpinan memberikan kepercayaan lebih kepada pegawai untuk melakukan pekerjaannya | | | | | |
| 21. | Walaupun saya salah dalam melakukan pekerjaan saya tetap menjadi kepercayaan pimpinan | | | | | |
| 22. | Pemimpin menunjukkan sikap loyalnya terhadap perusahaan sebagai acuan para pegawai untuk loyal terhadap kerjaan yang dia miliki | | | | | |

| | | | | | | |
|-----|---|--|--|--|--|--|
| 23. | Walaupun omset perusahaan menurun tetapi pimpinan tetap loyal terhadap perusahaan | | | | | |
| 24. | Pemimpin memberikan rasa hormatnya kepada pegawai yang lebih tua darinya | | | | | |
| 25. | Pemimpin memberikan rasa hormatnya kepada pegawai yang lebih muda darinya | | | | | |
| 26. | Pekerjaan saya terima sudah sesuai dengan kemampuan saya | | | | | |
| 27. | Gaji yang dibayar tepat waktu | | | | | |
| 28. | Sesama pegawai tidak menghormati hak – hak individual masing-masing | | | | | |
| 29. | Kebijakan promosi (kenaikan pangkat atau jabatan) di tempat kerja saya belum sesuai | | | | | |

| | X4_24 | X4_25 | Y1_26 | Y1_27 | Y1_28 | Y1_29 |
|----|-------|-------|-------|-------|-------|-------|
| 1 | 4.00 | 4.00 | 5.00 | 5.00 | 5.00 | 5.00 |
| 2 | 5.00 | 5.00 | 4.00 | 4.00 | 3.00 | 4.00 |
| 3 | 5.00 | 5.00 | 5.00 | 5.00 | 4.00 | 5.00 |
| 4 | 3.00 | 3.00 | 4.00 | 4.00 | 4.00 | 5.00 |
| 5 | 4.00 | 4.00 | 5.00 | 5.00 | 5.00 | 5.00 |
| 6 | 5.00 | 5.00 | 4.00 | 4.00 | 3.00 | 4.00 |
| 7 | 5.00 | 5.00 | 4.00 | 4.00 | 4.00 | 5.00 |
| 8 | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 |
| 9 | 5.00 | 5.00 | 4.00 | 4.00 | 3.00 | 4.00 |
| 10 | 5.00 | 5.00 | 4.00 | 4.00 | 4.00 | 4.00 |
| 11 | 5.00 | 5.00 | 4.00 | 4.00 | 2.00 | 5.00 |
| 12 | 4.00 | 4.00 | 5.00 | 4.00 | 3.00 | 4.00 |
| 13 | 5.00 | 5.00 | 4.00 | 4.00 | 4.00 | 4.00 |
| 14 | 5.00 | 5.00 | 3.00 | 3.00 | 3.00 | 5.00 |
| 15 | 5.00 | 5.00 | 4.00 | 5.00 | 5.00 | 4.00 |
| 16 | 5.00 | 5.00 | 4.00 | 4.00 | 4.00 | 5.00 |
| 17 | 5.00 | 5.00 | 4.00 | 5.00 | 4.00 | 5.00 |
| 18 | 5.00 | 5.00 | 4.00 | 5.00 | 5.00 | 5.00 |
| 19 | 5.00 | 5.00 | 4.00 | 5.00 | 5.00 | 4.00 |
| 20 | 5.00 | 5.00 | 4.00 | 4.00 | 4.00 | 4.00 |
| 21 | 5.00 | 4.00 | 5.00 | 5.00 | 5.00 | 5.00 |
| 22 | 3.00 | 3.00 | 4.00 | 5.00 | 4.00 | 5.00 |
| 23 | 3.00 | 5.00 | 4.00 | 5.00 | 5.00 | 5.00 |
| 24 | 4.00 | 4.00 | 4.00 | 5.00 | 5.00 | 4.00 |
| 25 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 | 5.00 |
| 26 | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 |
| 27 | 5.00 | 5.00 | 4.00 | 4.00 | 3.00 | 4.00 |
| 28 | 5.00 | 5.00 | 4.00 | 4.00 | 4.00 | 4.00 |
| 29 | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 |
| 30 | 5.00 | 5.00 | 4.00 | 5.00 | 4.00 | 2.00 |

**LAMPIRAN HASIL UJI
VALIDITAS**

Pertimbangan Individual (X1)

KMO and Bartlett's Test

| | | |
|--|--------------------|---------|
| Kaiser-Meyer-Olkin Measure of Sampling Adequacy. | | .765 |
| | Approx. Chi-Square | 302.305 |
| Bartlett's Test of Sphericity | Df | 15 |
| | Sig. | .000 |

Anti-image Matrices

| | | PER1 | PER2 | PER3 | PER4 | PER5 | PER6 |
|------------------------|------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| Anti-image Covariance | PER1 | .714 | -.076 | -.005 | .004 | .062 | -.189 |
| | PER2 | -.076 | .272 | -.149 | -.097 | .101 | -.063 |
| | PER3 | -.005 | -.149 | .246 | -.069 | -.140 | .093 |
| | PER4 | .004 | -.097 | -.069 | .289 | -.072 | -.081 |
| | PER5 | .062 | .101 | -.140 | -.072 | .385 | -.198 |
| | PER6 | -.189 | -.063 | .093 | -.081 | -.198 | .436 |
| Anti-image Correlation | PER1 | .814 ^a | -.173 | -.012 | .008 | .118 | -.338 |
| | PER2 | -.173 | .748 ^a | -.575 | -.345 | .311 | -.184 |
| | PER3 | -.012 | -.575 | .733 ^a | -.260 | -.455 | .283 |
| | PER4 | .008 | -.345 | -.260 | .877 ^a | -.216 | -.227 |
| | PER5 | .118 | .311 | -.455 | -.216 | .710 ^a | -.484 |
| | PER6 | -.338 | -.184 | .283 | -.227 | -.484 | .729 ^a |

a. Measures of Sampling Adequacy(MSA)

Communalities

| | Initial | Extraction |
|------|---------|------------|
| PER1 | 1.000 | .303 |
| PER2 | 1.000 | .716 |
| PER3 | 1.000 | .735 |
| PER4 | 1.000 | .800 |
| PER5 | 1.000 | .597 |
| PER6 | 1.000 | .569 |

Extraction Method: Principal

Component Analysis.

Total Variance Explained

| Component | Initial Eigenvalues | | | Extraction Sums of Squared Loadings | | |
|-----------|---------------------|---------------|--------------|-------------------------------------|---------------|--------------|
| | Total | % of Variance | Cumulative % | Total | % of Variance | Cumulative % |
| 1 | 3.721 | 62.011 | 62.011 | 3.721 | 62.011 | 62.011 |
| 2 | .863 | 14.376 | 76.388 | | | |
| 3 | .709 | 11.823 | 88.210 | | | |
| 4 | .351 | 5.844 | 94.054 | | | |
| 5 | .218 | 3.638 | 97.693 | | | |
| 6 | .138 | 2.307 | 100.000 | | | |

Extraction Method: Principal Component Analysis.

Component Matrix^a

| | Component |
|------|-----------|
| | 1 |
| PER1 | .551 |
| PER2 | .846 |
| PER3 | .857 |
| PER4 | .895 |
| PER5 | .772 |
| PER6 | .754 |

Extraction Method: Principal

Component Analysis.

a. 1 components extracted.

Factor Analysis Motivasi Inspirasi (X2)**KMO and Bartlett's Test**

| | | |
|--|--------------------|---------|
| Kaiser-Meyer-Olkin Measure of Sampling Adequacy. | | .876 |
| | Approx. Chi-Square | 350.087 |
| Bartlett's Test of Sphericity | Df | 15 |
| | Sig. | .000 |

Anti-image Matrices

| | MT1 | MT2 | MT3 | MT4 | MT5 | MT6 |
|-----|-------|-------|-------|-------|-------|-------|
| MT1 | .578 | -.071 | -.045 | -.033 | -.002 | -.058 |
| MT2 | -.071 | .218 | -.001 | -.104 | -.089 | -.137 |
| MT3 | -.045 | -.001 | .321 | -.134 | -.078 | -.083 |
| MT4 | -.033 | -.104 | -.134 | .283 | -.043 | .066 |

| | | | | | | | |
|------------------------|-----|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| Anti-image Correlation | MT5 | -.002 | -.089 | -.078 | -.043 | .382 | -.024 |
| | MT6 | -.058 | -.137 | -.083 | .066 | -.024 | .415 |
| | MT1 | .956 ^a | -.199 | -.105 | -.081 | -.005 | -.118 |
| | MT2 | -.199 | .836 ^a | -.003 | -.417 | -.309 | -.454 |
| | MT3 | -.105 | -.003 | .881 ^a | -.446 | -.222 | -.227 |
| | MT4 | -.081 | -.417 | -.446 | .841 ^a | -.132 | .194 |
| | MT5 | -.005 | -.309 | -.222 | -.132 | .928 ^a | -.060 |
| | MT6 | -.118 | -.454 | -.227 | .194 | -.060 | .858 ^a |

a. Measures of Sampling Adequacy(MSA)

Communalities

| | Initial | Extraction |
|-----|---------|------------|
| MT1 | 1.000 | .544 |
| MT2 | 1.000 | .844 |
| MT3 | 1.000 | .758 |
| MT4 | 1.000 | .755 |
| MT5 | 1.000 | .714 |
| MT6 | 1.000 | .640 |

Extraction Method: Principal

Component Analysis.

Component Matrix^a

| | Component |
|-----|-----------|
| | 1 |
| MT1 | .738 |
| MT2 | .919 |

| | |
|-----|------|
| MT3 | .871 |
| MT4 | .869 |
| MT5 | .845 |
| MT6 | .800 |

Extraction Method:

Principal Component

Analysis.

a. 1 components extracted.

Factor Analysis Stimulasi Intelektual (X3)

KMO and Bartlett's Test

| | | |
|--|--------------------|---------|
| Kaiser-Meyer-Olkin Measure of Sampling Adequacy. | | .865 |
| | Approx. Chi-Square | 335.717 |
| Bartlett's Test of Sphericity | Df | 10 |
| | Sig. | .000 |

Anti-image Matrices

| | | ST1 | ST2 | ST3 | ST4 | ST5 |
|------------------------|-----|-------------------|-------------------|-------------------|-------|-------|
| Anti-image Covariance | ST1 | .354 | -.121 | -.103 | .051 | -.058 |
| | ST2 | -.121 | .338 | -.033 | -.070 | -.052 |
| | ST3 | -.103 | -.033 | .193 | -.125 | -.058 |
| | ST4 | .051 | -.070 | -.125 | .264 | -.070 |
| | ST5 | -.058 | -.052 | -.058 | -.070 | .368 |
| Anti-image Correlation | ST1 | .854 ^a | -.349 | -.393 | .168 | -.160 |
| | ST2 | -.349 | .907 ^a | -.128 | -.233 | -.147 |
| | ST3 | -.393 | -.128 | .822 ^a | -.553 | -.217 |

| | | | | | | |
|--|-----|-------|-------|-------|-------------------|-------------------|
| | ST4 | .168 | -.233 | -.553 | .829 ^a | -.223 |
| | ST5 | -.160 | -.147 | -.217 | -.223 | .933 ^a |

a. Measures of Sampling Adequacy(MSA)

Communalities

| | Initial | Extraction |
|-----|---------|------------|
| ST1 | 1.000 | .724 |
| ST2 | 1.000 | .774 |
| ST3 | 1.000 | .869 |
| ST4 | 1.000 | .783 |
| ST5 | 1.000 | .753 |

Extraction Method: Principal

Component Analysis.

Component Matrix^a

| | Component |
|-----|-----------|
| | 1 |
| ST1 | .851 |
| ST2 | .880 |
| ST3 | .932 |
| ST4 | .885 |
| ST5 | .868 |

Extraction Method: Principal

Component Analysis.

a. 1 components extracted.

Factor Analysis Pengaruh Ideal (X4)

KMO and Bartlett's Test

| | | |
|--|------|---------|
| Kaiser-Meyer-Olkin Measure of Sampling Adequacy. | | .889 |
| Approx. Chi-Square | | 531.514 |
| Bartlett's Test of Sphericity | Df | 28 |
| | Sig. | .000 |

Anti-image Matrices

| | PI1 | PI2 | PI3 | PI4 | PI5 | PI6 | PI7 | PI8 | |
|---------------------------|-----|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| Anti-image Covariance | PI1 | .806 | .045 | -.069 | -.051 | -.097 | -.079 | .094 | -.014 |
| | PI2 | .045 | .488 | .041 | -.116 | -.017 | -.099 | -.032 | .036 |
| | PI3 | -.069 | .041 | .299 | .023 | -.039 | -.104 | -.051 | .003 |
| | PI4 | -.051 | -.116 | .023 | .343 | .023 | .038 | -.069 | -.088 |
| | PI5 | -.097 | -.017 | -.039 | .023 | .326 | .006 | -.090 | -.022 |
| | PI6 | -.079 | -.099 | -.104 | .038 | .006 | .210 | -.030 | -.069 |
| | PI7 | .094 | -.032 | -.051 | -.069 | -.090 | -.030 | .139 | -.054 |
| | PI8 | -.014 | .036 | .003 | -.088 | -.022 | -.069 | -.054 | .211 |
| Anti-image Correlation | PI1 | .668 ^a | .071 | -.141 | -.097 | -.190 | -.193 | .281 | -.034 |
| | PI2 | .071 | .904 ^a | .107 | -.284 | -.041 | -.309 | -.122 | .113 |
| | PI3 | -.141 | .107 | .908 ^a | .071 | -.126 | -.416 | -.251 | .011 |
| | PI4 | -.097 | -.284 | .071 | .888 ^a | .068 | .140 | -.318 | -.328 |
| | PI5 | -.190 | -.041 | -.126 | .068 | .921 ^a | .022 | -.421 | -.083 |
| | PI6 | -.193 | -.309 | -.416 | .140 | .022 | .877 ^a | -.174 | -.327 |
| | PI7 | .281 | -.122 | -.251 | -.318 | -.421 | -.174 | .865 ^a | -.316 |
| | PI8 | -.034 | .113 | .011 | -.328 | -.083 | -.327 | -.316 | .909 ^a |

a. Measures of Sampling Adequacy(MSA)

Communalities

| | Initial | Extraction |
|-----|---------|------------|
| PI1 | 1.000 | .099 |
| PI2 | 1.000 | .542 |
| PI3 | 1.000 | .710 |
| PI4 | 1.000 | .655 |
| PI5 | 1.000 | .715 |
| PI6 | 1.000 | .812 |
| PI7 | 1.000 | .876 |
| PI8 | 1.000 | .818 |

Extraction Method: Principal

Component Analysis.

Component Matrix^a

| | Component |
|-----|-----------|
| | 1 |
| PI1 | .315 |
| PI2 | .736 |
| PI3 | .842 |
| PI4 | .810 |
| PI5 | .846 |
| PI6 | .901 |
| PI7 | .936 |
| PI8 | .905 |

Extraction Method: Principal

Component Analysis.

a. 1 components extracted.

Factor Analysis Kepuasan kerja (Y1)

KMO and Bartlett's Test

| | | |
|--|--------------------|--------|
| Kaiser-Meyer-Olkin Measure of Sampling Adequacy. | | .593 |
| | Approx. Chi-Square | 89.703 |
| Bartlett's Test of Sphericity | Df | 3 |
| | Sig. | .000 |

Anti-image Matrices

| | | KJ1 | KJ2 | KJ3 |
|------------------------|-----|-------------------|-------------------|-------------------|
| Anti-image Covariance | KJ1 | .672 | -.242 | .040 |
| | KJ2 | -.242 | .387 | -.287 |
| | KJ3 | .040 | -.287 | .497 |
| Anti-image Correlation | KJ1 | .664 ^a | -.475 | .069 |
| | KJ2 | -.475 | .558 ^a | -.654 |
| | KJ3 | .069 | -.654 | .594 ^a |

a. Measures of Sampling Adequacy(MSA)

Communalities

| | Initial | Extraction |
|-----|---------|------------|
| KJ1 | 1.000 | .561 |
| KJ2 | 1.000 | .847 |
| KJ3 | 1.000 | .697 |

Extraction Method: Principal

Component Analysis.

Component Matrix^a

| | Component |
|-----|-----------|
| | 1 |
| KJ1 | .749 |
| KJ2 | .921 |
| KJ3 | .835 |

Extraction Method: Principal

Component Analysis.

a. 1 components extracted.

| |
|---|
| <p>LAMPIRAN HASIL UJI RELIABILITAS</p> |
|---|

Variabel Pertimbangan Individual (X1)

Reliability Statistics

| Cronbach's Alpha | N of Items |
|------------------|------------|
| .876 | 6 |

Variabel Motivasi Inspirasi (X2)

Reliability Statistics

| Cronbach's Alpha | N of Items |
|------------------|------------|
| .917 | 6 |

Variabel Stimulasi Intelektual (X3)**Reliability Statistics**

| Cronbach's Alpha | N of Items |
|------------------|------------|
| .930 | 5 |

Variabel Pengaruh Ideal (X4)**Reliability Statistics**

| Cronbach's Alpha | N of Items |
|------------------|------------|
| .915 | 8 |

Variabel Kepuasan Kerja (Y)**Reliability Statistics**

| Cronbach's Alpha | N of Items |
|------------------|------------|
| .764 | 3 |

| |
|---------------------------------------|
| LAMPIRAN DATA 85 RESPONDEN |
|---------------------------------------|

| | X1_01 | X1_02 | X1_03 | X1_04 | X1_05 | X1_06 | X2_07 | X2_08 | X2_09 | X2_10 |
|----|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 1 | 4.00 | 5.00 | 5.00 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 |
| 2 | 5.00 | 5.00 | 5.00 | 4.00 | 4.00 | 4.00 | 3.00 | 5.00 | 5.00 | 5.00 |
| 3 | 5.00 | 4.00 | 4.00 | 4.00 | 4.00 | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 |
| 4 | 3.00 | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 | 4.00 | 5.00 |
| 5 | 4.00 | 5.00 | 4.00 | 5.00 | 4.00 | 5.00 | 4.00 | 4.00 | 5.00 | 4.00 |
| 6 | 5.00 | 4.00 | 5.00 | 5.00 | 5.00 | 4.00 | 4.00 | 5.00 | 5.00 | 5.00 |
| 7 | 5.00 | 5.00 | 4.00 | 4.00 | 4.00 | 5.00 | 5.00 | 5.00 | 5.00 | 4.00 |
| 8 | 5.00 | 4.00 | 4.00 | 5.00 | 4.00 | 5.00 | 4.00 | 5.00 | 5.00 | 4.00 |
| 9 | 5.00 | 4.00 | 5.00 | 4.00 | 5.00 | 4.00 | 5.00 | 4.00 | 5.00 | 4.00 |
| 10 | 5.00 | 5.00 | 4.00 | 5.00 | 5.00 | 4.00 | 4.00 | 4.00 | 5.00 | 5.00 |
| 11 | 5.00 | 3.00 | 2.00 | 2.00 | 2.00 | 3.00 | 3.00 | 2.00 | 3.00 | 3.00 |
| 12 | 4.00 | 4.00 | 2.00 | 3.00 | 4.00 | 5.00 | 5.00 | 5.00 | 4.00 | 4.00 |
| 13 | 5.00 | 4.00 | 4.00 | 5.00 | 5.00 | 5.00 | 4.00 | 5.00 | 4.00 | 4.00 |
| 14 | 5.00 | 1.00 | 1.00 | 1.00 | 1.00 | 3.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| 15 | 5.00 | 4.00 | 4.00 | 5.00 | 3.00 | 4.00 | 5.00 | 5.00 | 4.00 | 5.00 |
| 16 | 5.00 | 5.00 | 5.00 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 |
| 17 | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 |
| 18 | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 | 4.00 | 4.00 |
| 19 | 5.00 | 5.00 | 5.00 | 5.00 | 4.00 | 4.00 | 4.00 | 4.00 | 5.00 | 5.00 |
| 20 | 5.00 | 4.00 | 4.00 | 5.00 | 5.00 | 5.00 | 4.00 | 5.00 | 4.00 | 4.00 |
| 21 | 4.00 | 4.00 | 4.00 | 5.00 | 4.00 | 5.00 | 4.00 | 5.00 | 5.00 | 4.00 |
| 22 | 3.00 | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 |
| 23 | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 | 4.00 | 4.00 |
| 24 | 4.00 | 5.00 | 5.00 | 5.00 | 4.00 | 4.00 | 4.00 | 4.00 | 5.00 | 5.00 |
| 25 | 4.00 | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 | 4.00 | 5.00 |
| 26 | 5.00 | 5.00 | 4.00 | 5.00 | 4.00 | 5.00 | 4.00 | 4.00 | 5.00 | 4.00 |
| 27 | 5.00 | 4.00 | 5.00 | 5.00 | 5.00 | 4.00 | 4.00 | 5.00 | 5.00 | 5.00 |
| 28 | 5.00 | 4.00 | 4.00 | 5.00 | 5.00 | 5.00 | 4.00 | 5.00 | 4.00 | 4.00 |
| 29 | 5.00 | 4.00 | 4.00 | 5.00 | 4.00 | 5.00 | 4.00 | 5.00 | 5.00 | 4.00 |

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| 30 | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 |
| 31 | 4.00 | 4.00 | 5.00 | 4.00 | 5.00 | 4.00 | 4.00 | 5.00 | 4.00 | 4.00 |
| 32 | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 |
| 33 | 4.00 | 5.00 | 5.00 | 5.00 | 4.00 | 4.00 | 4.00 | 5.00 | 5.00 | 5.00 |
| 34 | 5.00 | 4.00 | 4.00 | 4.00 | 5.00 | 5.00 | 5.00 | 4.00 | 4.00 | 4.00 |

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| 35 | 4.00 | 4.00 | 5.00 | 4.00 | 5.00 | 4.00 | 4.00 | 5.00 | 4.00 | 4.00 |
| 36 | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 |
| 37 | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 | 4.00 | 5.00 |
| 38 | 5.00 | 5.00 | 5.00 | 4.00 | 4.00 | 4.00 | 4.00 | 5.00 | 5.00 | 5.00 |
| 39 | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 |
| 40 | 3.00 | 2.00 | 2.00 | 2.00 | 3.00 | 3.00 | 3.00 | 2.00 | 3.00 | 2.00 |
| 41 | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 | 4.00 | 5.00 |
| 42 | 5.00 | 5.00 | 5.00 | 4.00 | 4.00 | 4.00 | 4.00 | 5.00 | 5.00 | 5.00 |
| 43 | 4.00 | 4.00 | 5.00 | 5.00 | 5.00 | 4.00 | 4.00 | 5.00 | 4.00 | 4.00 |
| 44 | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 |
| 45 | 5.00 | 4.00 | 5.00 | 4.00 | 5.00 | 4.00 | 4.00 | 5.00 | 4.00 | 4.00 |
| 46 | 5.00 | 4.00 | 5.00 | 4.00 | 5.00 | 4.00 | 4.00 | 5.00 | 4.00 | 4.00 |
| 47 | 4.00 | 5.00 | 5.00 | 5.00 | 4.00 | 4.00 | 4.00 | 5.00 | 5.00 | 5.00 |
| 48 | 4.00 | 4.00 | 5.00 | 5.00 | 5.00 | 4.00 | 4.00 | 5.00 | 4.00 | 4.00 |
| 49 | 4.00 | 4.00 | 5.00 | 4.00 | 5.00 | 4.00 | 4.00 | 5.00 | 4.00 | 4.00 |
| 50 | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 |
| 51 | 4.00 | 5.00 | 5.00 | 5.00 | 4.00 | 4.00 | 4.00 | 5.00 | 5.00 | 5.00 |
| 52 | 5.00 | 4.00 | 4.00 | 4.00 | 5.00 | 5.00 | 5.00 | 4.00 | 4.00 | 4.00 |
| 53 | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 |
| 54 | 4.00 | 5.00 | 5.00 | 5.00 | 4.00 | 4.00 | 4.00 | 5.00 | 5.00 | 5.00 |
| 55 | 5.00 | 4.00 | 4.00 | 4.00 | 5.00 | 5.00 | 5.00 | 4.00 | 4.00 | 4.00 |
| 56 | 4.00 | 4.00 | 5.00 | 4.00 | 5.00 | 4.00 | 4.00 | 5.00 | 4.00 | 4.00 |
| 57 | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 |
| 58 | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 | 4.00 | 5.00 |
| 59 | 5.00 | 5.00 | 5.00 | 4.00 | 4.00 | 4.00 | 4.00 | 5.00 | 5.00 | 5.00 |

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| 60 | 4.00 | 4.00 | 5.00 | 3.00 | 4.00 | 5.00 | 5.00 | 5.00 | 5.00 | 4.00 |
| 61 | 5.00 | 5.00 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 | 5.00 |
| 62 | 5.00 | 5.00 | 4.00 | 4.00 | 4.00 | 3.00 | 3.00 | 4.00 | 5.00 | 5.00 |
| 63 | 4.00 | 4.00 | 4.00 | 4.00 | 5.00 | 5.00 | 5.00 | 4.00 | 5.00 | 4.00 |
| 64 | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 |
| 65 | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 |
| 66 | 4.00 | 5.00 | 5.00 | 5.00 | 4.00 | 4.00 | 4.00 | 5.00 | 5.00 | 5.00 |
| 67 | 5.00 | 4.00 | 4.00 | 4.00 | 5.00 | 5.00 | 5.00 | 4.00 | 4.00 | 4.00 |
| 68 | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 |
| 69 | 3.00 | 2.00 | 2.00 | 2.00 | 3.00 | 3.00 | 3.00 | 2.00 | 3.00 | 2.00 |
| 70 | 4.00 | 2.00 | 3.00 | 4.00 | 5.00 | 5.00 | 5.00 | 3.00 | 4.00 | 2.00 |
| 71 | 4.00 | 4.00 | 5.00 | 5.00 | 5.00 | 4.00 | 4.00 | 5.00 | 4.00 | 4.00 |
| 72 | 1.00 | 1.00 | 1.00 | 1.00 | 3.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| 73 | 4.00 | 4.00 | 5.00 | 3.00 | 4.00 | 5.00 | 5.00 | 5.00 | 5.00 | 4.00 |
| 74 | 5.00 | 5.00 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 | 5.00 |
| 75 | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 |
| 76 | 4.00 | 5.00 | 5.00 | 5.00 | 4.00 | 4.00 | 4.00 | 5.00 | 5.00 | 5.00 |
| 77 | 5.00 | 4.00 | 4.00 | 4.00 | 5.00 | 5.00 | 5.00 | 4.00 | 4.00 | 4.00 |
| 78 | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 |
| 79 | 4.00 | 5.00 | 5.00 | 5.00 | 4.00 | 4.00 | 4.00 | 5.00 | 5.00 | 5.00 |
| 80 | 5.00 | 4.00 | 4.00 | 4.00 | 5.00 | 5.00 | 5.00 | 4.00 | 4.00 | 4.00 |
| 81 | 5.00 | 4.00 | 5.00 | 5.00 | 4.00 | 4.00 | 4.00 | 5.00 | 5.00 | 4.00 |
| 82 | 5.00 | 5.00 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 | 5.00 |
| 83 | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 |
| 84 | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 | 4.00 | 5.00 |
| 85 | 5.00 | 5.00 | 5.00 | 4.00 | 4.00 | 4.00 | 4.00 | 5.00 | 5.00 | 5.00 |

| | X2_11 | X2_12 | X3_13 | X3_14 | X3_15 | X3_16 | X3_17 | X4_18 | X4_19 | X4_20 | X4_21 |
|---|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 1 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 | 5.00 | 5.00 | 5.00 | 4.00 | 4.00 | 4.00 |
| 2 | 5.00 | 5.00 | 4.00 | 5.00 | 5.00 | 5.00 | 5.00 | 4.00 | 5.00 | 5.00 | 5.00 |

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|----|------|------|------|------|------|------|------|------|------|------|------|------|
| 3 | 4.00 | 5.00 | 4.00 | 5.00 | 4.00 | 5.00 | 4.00 | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 |
| 4 | 4.00 | 5.00 | 4.00 | 5.00 | 4.00 | 4.00 | 4.00 | 4.00 | 5.00 | 5.00 | 4.00 | 3.00 |
| 5 | 5.00 | 5.00 | 4.00 | 5.00 | 4.00 | 5.00 | 5.00 | 5.00 | 5.00 | 4.00 | 4.00 | 4.00 |
| 6 | 5.00 | 5.00 | 4.00 | 4.00 | 4.00 | 5.00 | 5.00 | 4.00 | 5.00 | 5.00 | 5.00 | 5.00 |
| 7 | 4.00 | 5.00 | 4.00 | 5.00 | 4.00 | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 |
| 8 | 5.00 | 5.00 | 4.00 | 4.00 | 4.00 | 4.00 | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 |
| 9 | 5.00 | 4.00 | 5.00 | 5.00 | 4.00 | 4.00 | 5.00 | 4.00 | 5.00 | 5.00 | 5.00 | 5.00 |
| 10 | 3.00 | 4.00 | 5.00 | 4.00 | 5.00 | 5.00 | 5.00 | 5.00 | 4.00 | 5.00 | 5.00 | 5.00 |
| 11 | 3.00 | 3.00 | 3.00 | 2.00 | 2.00 | 2.00 | 4.00 | 5.00 | 4.00 | 4.00 | 4.00 | 5.00 |
| 12 | 5.00 | 5.00 | 4.00 | 4.00 | 4.00 | 5.00 | 5.00 | 4.00 | 5.00 | 5.00 | 5.00 | 5.00 |
| 13 | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 | 4.00 | 5.00 | 5.00 | 3.00 |
| 14 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 5.00 | 5.00 | 5.00 | 5.00 |
| 15 | 4.00 | 5.00 | 5.00 | 5.00 | 4.00 | 5.00 | 5.00 | 5.00 | 4.00 | 5.00 | 5.00 | 5.00 |
| 16 | 4.00 | 4.00 | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 |
| 17 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 | 5.00 | 5.00 | 5.00 | 5.00 |
| 18 | 4.00 | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 | 3.00 | 5.00 | 5.00 |
| 19 | 5.00 | 3.00 | 3.00 | 4.00 | 5.00 | 5.00 | 5.00 | 5.00 | 4.00 | 5.00 | 5.00 | 5.00 |
| 20 | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 | 4.00 | 5.00 | 5.00 | 5.00 |
| 21 | 5.00 | 5.00 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 | 5.00 | 5.00 | 4.00 | 5.00 | 4.00 |
| 22 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 | 5.00 | 4.00 | 4.00 | 4.00 |
| 23 | 4.00 | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 | 4.00 | 5.00 | 3.00 |
| 24 | 5.00 | 3.00 | 3.00 | 4.00 | 5.00 | 5.00 | 5.00 | 5.00 | 4.00 | 4.00 | 4.00 | 4.00 |
| 25 | 4.00 | 5.00 | 4.00 | 5.00 | 4.00 | 4.00 | 4.00 | 4.00 | 5.00 | 4.00 | 5.00 | 4.00 |
| 26 | 5.00 | 5.00 | 4.00 | 5.00 | 4.00 | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 |
| 27 | 5.00 | 5.00 | 4.00 | 4.00 | 4.00 | 5.00 | 5.00 | 5.00 | 4.00 | 5.00 | 5.00 | 5.00 |
| 28 | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 | 4.00 | 5.00 | 5.00 | 5.00 |
| 29 | 5.00 | 5.00 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 |
| 30 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 | 2.00 | 5.00 | 5.00 | 5.00 |
| 31 | 4.00 | 5.00 | 4.00 | 4.00 | 4.00 | 5.00 | 4.00 | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 |
| 32 | 5.00 | 5.00 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 | 5.00 | 5.00 | 5.00 | 5.00 |
| 33 | 5.00 | 5.00 | 4.00 | 4.00 | 5.00 | 5.00 | 5.00 | 5.00 | 4.00 | 4.00 | 5.00 | 4.00 |

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| 34 | 4.00 | 5.00 | 5.00 | 4.00 | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 |
| 35 | 4.00 | 5.00 | 4.00 | 4.00 | 4.00 | 5.00 | 4.00 | 5.00 | 5.00 | 5.00 | 5.00 |

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| 36 | 5.00 | 5.00 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 | 5.00 | 5.00 | 5.00 | 5.00 |
| 37 | 5.00 | 4.00 | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 |
| 38 | 4.00 | 5.00 | 4.00 | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 |
| 39 | 5.00 | 4.00 | 5.00 | 4.00 | 4.00 | 4.00 | 5.00 | 4.00 | 5.00 | 4.00 | 5.00 |
| 40 | 2.00 | 3.00 | 2.00 | 2.00 | 2.00 | 4.00 | 3.00 | 4.00 | 4.00 | 4.00 | 4.00 |
| 41 | 5.00 | 4.00 | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 | 4.00 | 4.00 | 4.00 | 4.00 |
| 42 | 4.00 | 5.00 | 4.00 | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 |
| 43 | 5.00 | 4.00 | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 |
| 44 | 5.00 | 4.00 | 5.00 | 4.00 | 4.00 | 4.00 | 5.00 | 5.00 | 4.00 | 3.00 | 3.00 |
| 45 | 4.00 | 5.00 | 5.00 | 4.00 | 5.00 | 5.00 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 |
| 46 | 4.00 | 5.00 | 5.00 | 4.00 | 5.00 | 5.00 | 4.00 | 5.00 | 5.00 | 5.00 | 5.00 |
| 47 | 5.00 | 5.00 | 4.00 | 4.00 | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 |
| 48 | 5.00 | 4.00 | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 |
| 49 | 4.00 | 5.00 | 4.00 | 4.00 | 4.00 | 5.00 | 4.00 | 5.00 | 5.00 | 5.00 | 5.00 |
| 50 | 5.00 | 5.00 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 | 5.00 | 5.00 | 5.00 | 5.00 |
| 51 | 5.00 | 5.00 | 4.00 | 4.00 | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 |
| 52 | 4.00 | 5.00 | 5.00 | 4.00 | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 |
| 53 | 5.00 | 5.00 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 | 5.00 | 5.00 | 5.00 | 5.00 |
| 54 | 5.00 | 5.00 | 4.00 | 4.00 | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 |
| 55 | 4.00 | 5.00 | 5.00 | 4.00 | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 |
| 56 | 4.00 | 5.00 | 4.00 | 4.00 | 4.00 | 5.00 | 4.00 | 5.00 | 5.00 | 5.00 | 5.00 |
| 57 | 5.00 | 5.00 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 | 5.00 | 4.00 | 5.00 |
| 58 | 5.00 | 4.00 | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 | 4.00 | 4.00 | 4.00 | 4.00 |
| 59 | 4.00 | 5.00 | 4.00 | 5.00 | 5.00 | 5.00 | 5.00 | 4.00 | 5.00 | 3.00 | 5.00 |
| 60 | 3.00 | 4.00 | 5.00 | 4.00 | 5.00 | 5.00 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 |
| 61 | 4.00 | 4.00 | 4.00 | 4.00 | 5.00 | 5.00 | 5.00 | 4.00 | 5.00 | 4.00 | 4.00 |

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|----|------|------|------|------|------|------|------|------|------|------|------|------|
| 62 | 4.00 | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 |
| 63 | 4.00 | 5.00 | 5.00 | 4.00 | 5.00 | 4.00 | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 |
| 64 | 5.00 | 4.00 | 5.00 | 4.00 | 4.00 | 4.00 | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 |
| 65 | 5.00 | 5.00 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 |
| 66 | 5.00 | 5.00 | 4.00 | 4.00 | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 |
| 67 | 4.00 | 5.00 | 5.00 | 4.00 | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 |
| 68 | 5.00 | 4.00 | 5.00 | 4.00 | 4.00 | 4.00 | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 |
| 69 | 2.00 | 3.00 | 2.00 | 2.00 | 2.00 | 4.00 | 3.00 | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 |
| 70 | 4.00 | 4.00 | 4.00 | 4.00 | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 |
| 71 | 5.00 | 4.00 | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 |
| 72 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 |
| 73 | 3.00 | 4.00 | 5.00 | 4.00 | 5.00 | 5.00 | 4.00 | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 |
| 74 | 4.00 | 4.00 | 4.00 | 4.00 | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 |
| 75 | 5.00 | 5.00 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 |
| 76 | 5.00 | 5.00 | 4.00 | 4.00 | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 |
| 77 | 4.00 | 5.00 | 5.00 | 4.00 | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 |
| 78 | 5.00 | 5.00 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 |
| 79 | 5.00 | 5.00 | 4.00 | 4.00 | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 |
| 80 | 4.00 | 5.00 | 5.00 | 4.00 | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 |
| 81 | 5.00 | 5.00 | 4.00 | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 |
| 82 | 4.00 | 4.00 | 5.00 | 5.00 | 5.00 | 5.00 | 3.00 | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 |
| 83 | 5.00 | 5.00 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 |
| 84 | 5.00 | 4.00 | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 | 4.00 | 5.00 | 4.00 | 4.00 | 5.00 |
| 85 | 4.00 | 5.00 | 4.00 | 5.00 | 5.00 | 5.00 | 5.00 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 |

| | X4_22 | X4_23 | X4_24 | X4_25 | Y1_26 | Y1_27 | Y1_28 | PER | MT | ST |
|---|-------|-------|-------|-------|-------|-------|-------|----------|----------|---------|
| 1 | 4.00 | 4.00 | 4.00 | 4.00 | 5.00 | 5.00 | 5.00 | -0.19476 | -0.60571 | 0.02574 |
| 2 | 5.00 | 5.00 | 5.00 | 5.00 | 4.00 | 4.00 | 3.00 | 0.01781 | 0.37891 | 0.5803 |

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| 3 | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 | 4.00 | -0.20809 | 0.58711 | 0.01751 |
| 4 | 3.00 | 5.00 | 3.00 | 3.00 | 4.00 | 4.00 | 4.00 | 0.42014 | 0.32423 | -0.2741 |
| 5 | 4.00 | 4.00 | 4.00 | 4.00 | 5.00 | 5.00 | 5.00 | 0.10522 | 0.1181 | 0.30273 |
| 6 | 5.00 | 5.00 | 5.00 | 5.00 | 4.00 | 4.00 | 3.00 | 0.30208 | 0.59758 | 0.02574 |
| 7 | 5.00 | 5.00 | 5.00 | 5.00 | 4.00 | 4.00 | 4.00 | 0.05132 | 0.353 | 0.30273 |
| 8 | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 | 0.05837 | 0.36347 | -0.26587 |
| 9 | 5.00 | 5.00 | 5.00 | 5.00 | 4.00 | 4.00 | 3.00 | 0.03562 | 0.10498 | 0.2751 |
| 10 | 5.00 | 5.00 | 5.00 | 5.00 | 4.00 | 4.00 | 4.00 | 0.31123 | -0.33787 | 0.56729 |
| 11 | 4.00 | 5.00 | 4.00 | 5.00 | 4.00 | 4.00 | 2.00 | -2.62295 | -2.27304 | -2.50741 |
| 12 | 5.00 | 5.00 | 5.00 | 4.00 | 5.00 | 4.00 | 3.00 | -1.18764 | 0.31927 | 0.02574 |
| 13 | 5.00 | 5.00 | 5.00 | 5.00 | 4.00 | 4.00 | 4.00 | 0.3356 | 0.1006 | 0.84428 |
| 14 | 5.00 | 5.00 | 5.00 | 5.00 | 3.00 | 3.00 | 3.00 | -3.93572 | -4.87159 | -4.73719 |
| 15 | 5.00 | 5.00 | 5.00 | 5.00 | 4.00 | 5.00 | 5.00 | -0.50263 | 0.32423 | 0.5667 |
| 16 | 5.00 | 5.00 | 5.00 | 5.00 | 4.00 | 4.00 | 4.00 | 0.01781 | -0.60571 | 0.84428 |
| 17 | 5.00 | 5.00 | 5.00 | 5.00 | 4.00 | 5.00 | 4.00 | 0.84527 | 0.35531 | -0.55109 |
| 18 | 5.00 | 5.00 | 5.00 | 5.00 | 4.00 | 5.00 | 5.00 | 0.84527 | 0.09012 | 0.84428 |
| 19 | 5.00 | 5.00 | 5.00 | 5.00 | 4.00 | 5.00 | 5.00 | 0.28427 | -0.11137 | 0.03934 |
| 20 | 5.00 | 5.00 | 5.00 | 5.00 | 4.00 | 4.00 | 4.00 | 0.3356 | 0.1006 | 0.84428 |
| 21 | 5.00 | 5.00 | 4.00 | 5.00 | 5.00 | 5.00 | 5.00 | -0.15419 | 0.36347 | -0.26587 |
| 22 | 4.00 | 3.00 | 3.00 | 3.00 | 4.00 | 5.00 | 4.00 | 0.42014 | 0.35531 | -0.55109 |
| 23 | 5.00 | 4.00 | 3.00 | 3.00 | 4.00 | 5.00 | 5.00 | 0.84527 | 0.09012 | 0.84428 |
| 24 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 | 5.00 | 5.00 | 0.0717 | -0.11137 | 0.03934 |
| 25 | 4.00 | 3.00 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 | 0.6327 | 0.32423 | -0.2741 |
| 26 | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 | 0.31778 | 0.1181 | 0.30273 |
| 27 | 5.00 | 5.00 | 5.00 | 5.00 | 4.00 | 4.00 | 3.00 | 0.30208 | 0.59758 | 0.02574 |
| 28 | 5.00 | 5.00 | 5.00 | 5.00 | 4.00 | 4.00 | 4.00 | 0.3356 | 0.1006 | 0.84428 |
| 29 | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 | 0.05837 | 0.36347 | -0.26587 |
| 30 | 5.00 | 5.00 | 5.00 | 5.00 | 4.00 | 5.00 | 4.00 | 0.84527 | 0.35531 | -0.55109 |
| 31 | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 | -0.17695 | -0.12855 | -0.25948 |
| 32 | 5.00 | 5.00 | 5.00 | 5.00 | 4.00 | 5.00 | 4.00 | 0.84527 | 0.81625 | -0.55109 |
| 33 | 5.00 | 4.00 | 5.00 | 5.00 | 4.00 | 4.00 | 3.00 | 0.0717 | 0.59758 | 0.30332 |

| | | | | | | | | | | |
|----|------|------|------|------|------|------|------|----------|----------|----------|
| 34 | 5.00 | 5.00 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 | 0.06913 | -0.15525 | 0.56729 |
| 35 | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 | -0.17695 | -0.12855 | -0.25948 |

| | | | | | | | | | | |
|----|------|------|------|------|------|------|------|----------|----------|----------|
| 36 | 5.00 | 5.00 | 5.00 | 5.00 | 4.00 | 5.00 | 4.00 | 0.84527 | 0.81625 | -0.55109 |
| 37 | 5.00 | 5.00 | 5.00 | 5.00 | 4.00 | 5.00 | 5.00 | 0.84527 | 0.32158 | 0.84428 |
| 38 | 5.00 | 5.00 | 5.00 | 5.00 | 4.00 | 5.00 | 5.00 | 0.01781 | 0.36844 | 0.5803 |
| 39 | 5.00 | 4.00 | 5.00 | 4.00 | 4.00 | 4.00 | 4.00 | 0.84527 | 0.58446 | -0.00189 |
| 40 | 3.00 | 3.00 | 3.00 | 3.00 | 4.00 | 4.00 | 2.00 | -3.03027 | -2.73629 | -2.47339 |
| 41 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 | 5.00 | 5.00 | 0.84527 | 0.32158 | 0.84428 |
| 42 | 5.00 | 5.00 | 5.00 | 5.00 | 4.00 | 5.00 | 5.00 | 0.01781 | 0.36844 | 0.5803 |
| 43 | 5.00 | 5.00 | 5.00 | 5.00 | 4.00 | 4.00 | 4.00 | 0.08952 | -0.13119 | 0.84428 |
| 44 | 5.00 | 3.00 | 3.00 | 3.00 | 4.00 | 4.00 | 4.00 | 0.84527 | 0.58446 | -0.00189 |
| 45 | 4.00 | 4.00 | 4.00 | 4.00 | 5.00 | 5.00 | 5.00 | 0.03562 | -0.12855 | 0.28207 |
| 46 | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 | 0.03562 | -0.12855 | 0.28207 |
| 47 | 5.00 | 5.00 | 5.00 | 5.00 | 4.00 | 4.00 | 3.00 | 0.0717 | 0.59758 | 0.30332 |
| 48 | 5.00 | 5.00 | 5.00 | 5.00 | 4.00 | 4.00 | 4.00 | 0.08952 | -0.13119 | 0.84428 |
| 49 | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 | -0.17695 | -0.12855 | -0.25948 |
| 50 | 5.00 | 5.00 | 5.00 | 5.00 | 4.00 | 5.00 | 4.00 | 0.84527 | 0.81625 | -0.55109 |
| 51 | 5.00 | 5.00 | 5.00 | 5.00 | 4.00 | 4.00 | 3.00 | 0.0717 | 0.59758 | 0.30332 |
| 52 | 5.00 | 5.00 | 5.00 | 5.00 | 4.00 | 4.00 | 4.00 | 0.06913 | -0.15525 | 0.56729 |
| 53 | 5.00 | 5.00 | 5.00 | 5.00 | 4.00 | 5.00 | 4.00 | 0.84527 | 0.81625 | -0.55109 |
| 54 | 5.00 | 5.00 | 5.00 | 5.00 | 4.00 | 4.00 | 3.00 | 0.0717 | 0.59758 | 0.30332 |
| 55 | 5.00 | 5.00 | 5.00 | 5.00 | 4.00 | 4.00 | 4.00 | 0.06913 | -0.15525 | 0.56729 |
| 56 | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 | -0.17695 | -0.12855 | -0.25948 |
| 57 | 5.00 | 4.00 | 5.00 | 4.00 | 4.00 | 5.00 | 4.00 | 0.84527 | 0.81625 | -0.55109 |
| 58 | 3.00 | 3.00 | 3.00 | 3.00 | 4.00 | 5.00 | 5.00 | 0.84527 | 0.32158 | 0.84428 |
| 59 | 4.00 | 3.00 | 3.00 | 5.00 | 4.00 | 5.00 | 5.00 | 0.01781 | 0.36844 | 0.5803 |
| 60 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 | 5.00 | 5.00 | -0.43685 | -0.10794 | 0.28207 |
| 61 | 3.00 | 4.00 | 4.00 | 4.00 | 5.00 | 5.00 | 5.00 | -0.23246 | -0.3716 | 0.30332 |
| 62 | 5.00 | 5.00 | 5.00 | 5.00 | 4.00 | 4.00 | 3.00 | -0.51624 | -0.0956 | 0.84428 |
| 63 | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 | 4.00 | -0.14343 | 0.10763 | 0.27568 |

| | | | | | | | | | | |
|----|------|------|------|------|------|------|------|----------|----------|----------|
| 64 | 5.00 | 5.00 | 5.00 | 5.00 | 4.00 | 4.00 | 4.00 | 0.84527 | 0.58446 | -0.00189 |
| 65 | 5.00 | 5.00 | 5.00 | 5.00 | 4.00 | 5.00 | 4.00 | 0.84527 | 0.81625 | -0.55109 |
| 66 | 5.00 | 5.00 | 5.00 | 5.00 | 4.00 | 4.00 | 3.00 | 0.0717 | 0.59758 | 0.30332 |
| 67 | 5.00 | 5.00 | 5.00 | 5.00 | 4.00 | 4.00 | 4.00 | 0.06913 | -0.15525 | 0.56729 |
| 68 | 5.00 | 5.00 | 5.00 | 5.00 | 4.00 | 4.00 | 4.00 | 0.84527 | 0.58446 | -0.00189 |
| 69 | 5.00 | 5.00 | 5.00 | 5.00 | 4.00 | 4.00 | 2.00 | -3.03027 | -2.73629 | -2.47339 |
| 70 | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 | 4.00 | 3.00 | -0.91251 | -1.10062 | 0.30332 |
| 71 | 5.00 | 5.00 | 5.00 | 5.00 | 4.00 | 4.00 | 4.00 | 0.08952 | -0.13119 | 0.84428 |
| 72 | 5.00 | 5.00 | 5.00 | 5.00 | 1.00 | 3.00 | 3.00 | -4.79909 | -4.87159 | -4.73719 |
| 73 | 5.00 | 5.00 | 5.00 | 5.00 | 4.00 | 5.00 | 5.00 | -0.43685 | -0.10794 | 0.28207 |
| 74 | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 | -0.23246 | -0.3716 | 0.30332 |
| 75 | 5.00 | 5.00 | 5.00 | 5.00 | 4.00 | 5.00 | 4.00 | 0.84527 | 0.81625 | -0.55109 |
| 76 | 5.00 | 5.00 | 5.00 | 5.00 | 4.00 | 4.00 | 3.00 | 0.0717 | 0.59758 | 0.30332 |
| 77 | 5.00 | 5.00 | 5.00 | 5.00 | 4.00 | 4.00 | 4.00 | 0.06913 | -0.15525 | 0.56729 |
| 78 | 5.00 | 5.00 | 5.00 | 5.00 | 4.00 | 5.00 | 4.00 | 0.84527 | 0.81625 | -0.55109 |
| 79 | 5.00 | 5.00 | 5.00 | 5.00 | 4.00 | 4.00 | 3.00 | 0.0717 | 0.59758 | 0.30332 |
| 80 | 5.00 | 5.00 | 5.00 | 5.00 | 4.00 | 4.00 | 4.00 | 0.06913 | -0.15525 | 0.56729 |
| 81 | 5.00 | 5.00 | 5.00 | 5.00 | 4.00 | 4.00 | 4.00 | 0.02486 | 0.36347 | 0.5803 |
| 82 | 5.00 | 5.00 | 5.00 | 5.00 | 2.00 | 3.00 | 4.00 | -0.23246 | -0.3716 | 0.27384 |
| 83 | 5.00 | 5.00 | 5.00 | 5.00 | 4.00 | 5.00 | 4.00 | 0.84527 | 0.81625 | -0.55109 |
| 84 | 5.00 | 4.00 | 5.00 | 4.00 | 4.00 | 5.00 | 5.00 | 0.84527 | 0.32158 | 0.84428 |
| 85 | 3.00 | 3.00 | 3.00 | 3.00 | 4.00 | 5.00 | 5.00 | 0.01781 | 0.36844 | 0.5803 |

| | PI | KJ | res_1 | abs_res | res_2 | log_x1 | log_x2 | log_x3 | log_x4 |
|---|----------|----------|----------|---------|----------|--------|--------|--------|--------|
| 1 | -1.48792 | 1.35956 | 1.21417 | 1.21 | 0.63071 | | | -1.59 | |
| 2 | 0.47729 | -0.96914 | -0.98472 | 0.98 | 0.1147 | -1.75 | -0.42 | -0.24 | -0.32 |
| 3 | 0.58915 | 0.87559 | 0.97328 | 0.97 | 0.05988 | | -0.23 | -1.76 | -0.23 |
| 4 | -2.02914 | -0.48517 | -1.00343 | 1 | 0.48043 | -0.38 | -0.49 | | |
| 5 | -1.48792 | 1.35956 | 1.00995 | 1.01 | 0.32933 | -0.98 | -0.93 | -0.52 | |
| 6 | 0.47729 | -0.96914 | -1.04722 | 1.05 | 0.30093 | -0.52 | -0.22 | -1.59 | -0.32 |
| 7 | 0.58915 | -0.48517 | -0.46192 | 0.46 | -0.35622 | -1.29 | -0.45 | -0.52 | -0.23 |

| | | | | | | | | | |
|----|----------|----------|----------|------|----------|-------|-------|-------|-------|
| 8 | 0.58915 | 1.35956 | 1.43041 | 1.43 | 0.69227 | -1.23 | -0.44 | | -0.23 |
| 9 | 0.47729 | -0.96914 | -0.92883 | 0.93 | 0.16672 | -1.45 | -0.98 | -0.56 | -0.32 |
| 10 | 0.47729 | -0.48517 | -0.49899 | 0.5 | -0.11848 | -0.51 | | -0.25 | -0.32 |
| 11 | -0.64237 | -1.45311 | -0.28021 | 0.28 | -0.4091 | | | | |
| 12 | 0.1987 | -0.37704 | -0.02582 | 0.03 | -1.13819 | | -0.5 | -1.59 | -0.7 |
| 13 | -0.09857 | -0.48517 | -0.69226 | 0.69 | -0.0317 | -0.47 | -1 | -0.07 | |
| 14 | 0.58915 | -2.3299 | -0.01362 | 0.01 | -0.27126 | | | | -0.23 |
| 15 | 0.47729 | 0.76746 | 0.9159 | 0.92 | -0.11057 | | -0.49 | -0.25 | -0.32 |
| 16 | 0.58915 | -0.48517 | -0.382 | 0.38 | -0.31627 | -1.75 | | -0.07 | -0.23 |
| 17 | 0.58915 | 0.2835 | 0.14501 | 0.15 | -0.29395 | -0.07 | -0.45 | | -0.23 |
| 18 | -0.05236 | 0.76746 | 0.41744 | 0.42 | -0.13915 | -0.07 | -1.05 | -0.07 | |
| 19 | 0.47729 | 0.76746 | 0.7811 | 0.78 | 0.18016 | -0.55 | | -1.41 | -0.32 |
| 20 | 0.47729 | -0.48517 | -0.58532 | 0.59 | -0.15782 | -0.47 | -1 | -0.07 | -0.32 |
| 21 | -0.2992 | 1.35956 | 1.32917 | 1.33 | 0.55112 | | -0.44 | | |
| 22 | -2.3252 | 0.2835 | -0.26873 | 0.27 | -0.21216 | -0.38 | -0.45 | | |
| 23 | -1.703 | 0.76746 | 0.11091 | 0.11 | -0.39069 | -0.07 | -1.05 | -0.07 | |
| 24 | -1.59978 | 0.76746 | 0.45911 | 0.46 | -0.14215 | -1.14 | | -1.41 | |
| 25 | -1.43065 | -0.48517 | -0.95602 | 0.96 | 0.48259 | -0.2 | -0.49 | | |
| 26 | 0.58915 | 1.35956 | 1.33194 | 1.33 | 0.65164 | -0.5 | -0.93 | -0.52 | -0.23 |
| 27 | 0.47729 | -0.96914 | -1.04722 | 1.05 | 0.30093 | -0.52 | -0.22 | -1.59 | -0.32 |
| 28 | 0.47729 | -0.48517 | -0.58532 | 0.59 | -0.15782 | -0.47 | -1 | -0.07 | -0.32 |
| 29 | 0.58915 | 1.35956 | 1.43041 | 1.43 | 0.69227 | -1.23 | -0.44 | | -0.23 |
| 30 | 0.25358 | 0.2835 | 0.0827 | 0.08 | -0.34509 | -0.07 | -0.45 | | -0.6 |
| 31 | 0.58915 | 1.35956 | 1.56118 | 1.56 | 0.85144 | | | | -0.23 |
| 32 | 0.58915 | 0.2835 | 0.08806 | 0.09 | -0.45042 | -0.07 | -0.09 | | -0.23 |
| 33 | -0.41041 | -0.96914 | -1.1679 | 1.17 | 0.33682 | -1.14 | -0.22 | -0.52 | |
| 34 | 0.0309 | -0.48517 | -0.53187 | 0.53 | -0.18933 | -1.16 | | -0.25 | -1.51 |
| 35 | 0.58915 | 1.35956 | 1.56118 | 1.56 | 0.85144 | | | | -0.23 |
| 36 | 0.58915 | 0.2835 | 0.08806 | 0.09 | -0.45042 | -0.07 | -0.09 | | -0.23 |
| 37 | 0.58915 | 0.76746 | 0.50797 | 0.51 | -0.11996 | -0.07 | -0.49 | -0.07 | -0.23 |
| 38 | 0.58915 | 0.76746 | 0.77395 | 0.77 | -0.09753 | -1.75 | -0.43 | -0.24 | -0.23 |

| | | | | | | | | | |
|----|----------|----------|----------|------|----------|-------|-------|-------|-------|
| 39 | -0.41662 | -0.48517 | -0.88801 | 0.89 | 0.35583 | -0.07 | -0.23 | | |
| 40 | -2.73187 | -1.45311 | -0.49193 | 0.49 | -0.16572 | | | | |
| 41 | -1.59978 | 0.76746 | 0.10148 | 0.1 | -0.45354 | -0.07 | -0.49 | -0.07 | |
| 42 | 0.58915 | 0.76746 | 0.77395 | 0.77 | -0.09753 | -1.75 | -0.43 | -0.24 | -0.23 |
| 43 | 0.58915 | -0.48517 | -0.46213 | 0.46 | -0.31515 | -1.05 | | -0.07 | -0.23 |
| 44 | -2.65461 | -0.48517 | -1.30361 | 1.3 | 0.84598 | -0.07 | -0.23 | | |
| 45 | -1.59978 | 1.35956 | 1.04238 | 1.04 | 0.39889 | -1.45 | | -0.55 | |
| 46 | 0.58915 | 1.35956 | 1.44887 | 1.45 | 0.73246 | -1.45 | | -0.55 | -0.23 |
| 47 | 0.58915 | -0.96914 | -0.98227 | 0.98 | 0.1179 | -1.14 | -0.22 | -0.52 | -0.23 |
| 48 | 0.58915 | -0.48517 | -0.46213 | 0.46 | -0.31515 | -1.05 | | -0.07 | -0.23 |
| 49 | 0.58915 | 1.35956 | 1.56118 | 1.56 | 0.85144 | | | | -0.23 |
| 50 | 0.58915 | 0.2835 | 0.08806 | 0.09 | -0.45042 | -0.07 | -0.09 | | -0.23 |
| 51 | 0.58915 | -0.96914 | -0.98227 | 0.98 | 0.1179 | -1.14 | -0.22 | -0.52 | -0.23 |
| 52 | 0.58915 | -0.48517 | -0.4282 | 0.43 | -0.31159 | -1.16 | | -0.25 | -0.23 |
| 53 | 0.58915 | 0.2835 | 0.08806 | 0.09 | -0.45042 | -0.07 | -0.09 | | -0.23 |
| 54 | 0.58915 | -0.96914 | -0.98227 | 0.98 | 0.1179 | -1.14 | -0.22 | -0.52 | -0.23 |
| 55 | 0.58915 | -0.48517 | -0.4282 | 0.43 | -0.31159 | -1.16 | | -0.25 | -0.23 |
| 56 | 0.58915 | 1.35956 | 1.56118 | 1.56 | 0.85144 | | | | -0.23 |
| 57 | -0.41662 | 0.2835 | -0.09871 | 0.1 | -0.40627 | -0.07 | -0.09 | | |
| 58 | -2.73187 | 0.76746 | -0.10875 | 0.11 | -0.40855 | -0.07 | -0.49 | -0.07 | |
| 59 | -1.60749 | 0.76746 | 0.36603 | 0.37 | -0.43228 | -1.75 | -0.43 | -0.24 | |
| 60 | -1.59978 | 0.76746 | 0.58939 | 0.59 | -0.21304 | | | -0.55 | |
| 61 | -1.57384 | 1.35956 | 1.15569 | 1.16 | 0.47318 | | | -0.52 | |
| 62 | 0.58915 | -0.96914 | -0.76888 | 0.77 | -0.21415 | | | -0.07 | -0.23 |
| 63 | 0.58915 | 0.87559 | 0.98997 | 0.99 | 0.16493 | | -0.97 | -0.56 | -0.23 |
| 64 | 0.58915 | -0.48517 | -0.70124 | 0.7 | 0.13556 | -0.07 | -0.23 | | -0.23 |
| 65 | 0.58915 | 0.2835 | 0.08806 | 0.09 | -0.45042 | -0.07 | -0.09 | | -0.23 |
| 66 | 0.58915 | -0.96914 | -0.98227 | 0.98 | 0.1179 | -1.14 | -0.22 | -0.52 | -0.23 |
| 67 | 0.58915 | -0.48517 | -0.4282 | 0.43 | -0.31159 | -1.16 | | -0.25 | -0.23 |
| 68 | 0.58915 | -0.48517 | -0.70124 | 0.7 | 0.13556 | -0.07 | -0.23 | | -0.23 |
| 69 | 0.58915 | -1.45311 | 0.1248 | 0.12 | -0.64347 | | | | -0.23 |

| | | | | | | | | | |
|----|----------|----------|----------|------|----------|-------|-------|-------|-------|
| 70 | 0.58915 | -0.37704 | 0.11473 | 0.11 | -0.70479 | | | -0.52 | -0.23 |
| 71 | 0.58915 | -0.48517 | -0.46213 | 0.46 | -0.31515 | -1.05 | | -0.07 | -0.23 |
| 72 | 0.58915 | -3.5141 | -0.93897 | 0.94 | 0.37178 | | | | -0.23 |
| 73 | 0.58915 | 0.76746 | 0.99588 | 1 | 0.12054 | | | -0.55 | -0.23 |
| 74 | 0.58915 | 1.35956 | 1.55736 | 1.56 | 0.8028 | | | -0.52 | -0.23 |
| 75 | 0.58915 | 0.2835 | 0.08806 | 0.09 | -0.45042 | -0.07 | -0.09 | | -0.23 |
| 76 | 0.58915 | -0.96914 | -0.98227 | 0.98 | 0.1179 | -1.14 | -0.22 | -0.52 | -0.23 |
| 77 | 0.58915 | -0.48517 | -0.4282 | 0.43 | -0.31159 | -1.16 | | -0.25 | -0.23 |
| 78 | 0.58915 | 0.2835 | 0.08806 | 0.09 | -0.45042 | -0.07 | -0.09 | | -0.23 |
| 79 | 0.58915 | -0.96914 | -0.98227 | 0.98 | 0.1179 | -1.14 | -0.22 | -0.52 | -0.23 |
| 80 | 0.58915 | -0.48517 | -0.4282 | 0.43 | -0.31159 | -1.16 | | -0.25 | -0.23 |
| 81 | 0.58915 | -0.48517 | -0.48019 | 0.48 | -0.38792 | -1.6 | -0.44 | -0.24 | -0.23 |
| 82 | 0.58915 | -2.43803 | -2.23759 | 2.24 | 1.48717 | | | -0.56 | -0.23 |
| 83 | 0.58915 | 0.2835 | 0.08806 | 0.09 | -0.45042 | -0.07 | -0.09 | | -0.23 |
| 84 | -0.41662 | 0.76746 | 0.3212 | 0.32 | -0.27323 | -0.07 | -0.49 | -0.07 | |
| 85 | -2.73187 | 0.76746 | 0.15723 | 0.16 | -0.60363 | -1.75 | -0.43 | -0.24 | |

**LAMPIRAN HASIL UJI
ASUMSI KLASIK**

Regression Autokorelasi

Variables Entered/Removed^a

| Model | Variables Entered | Variables Removed | Method |
|-------|-----------------------------|----------------------|--------|
| 1 | X4, X3, X1, X2 ^b | . | Enter |

a. Dependent Variable: Y1

b. All requested variables entered.

Model Summary^b

| Model | R | R Square | Adjusted Square | R | Std. Error of the Estimate | Durbin-Watson |
|-------|-------------------|----------|--------------------|---|-------------------------------|---------------|
| 1 | .522 ^a | .273 | .236 | | .87387207 | 2.302 |

a. Predictors: (Constant), X4, X3, X1, X2

b. Dependent Variable: Y1

ANOVA^a

| Model | | Sum of Squares | df | Mean Square | F | Sig. |
|-------|------------|----------------|----|-------------|-------|-------------------|
| 1 | Regression | 22.908 | 4 | 5.727 | 7.499 | .000 ^b |
| | Residual | 61.092 | 80 | .764 | | |
| | Total | 84.000 | 84 | | | |

a. Dependent Variable: Y1

b. Predictors: (Constant), X4, X3, X1, X2

Coefficients^a

| Model | Unstandardized Coefficients | | Standardized Coefficient | t | Sig. |
|--------------|-----------------------------|------------|--------------------------|--------|-------|
| | B | Std. Error | Beta | | |
| 1 (Constant) | -1.512E-016 | .095 | | .000 | 1.000 |
| X1 | .300 | .249 | .300 | 1.206 | .232 |
| X2 | .124 | .251 | .124 | .493 | .623 |
| X3 | .090 | .146 | .090 | .614 | .541 |
| X4 | -.186 | .096 | -.186 | -1.930 | .057 |

a. Dependent Variable: Y1

Residuals Statistics^a

| | Minimum | Maximum | Mean | Std. Deviation | N |
|----------------------|-------------|------------|------|----------------|----|
| Predicted Value | -2.5751338 | .8762146 | 0E-7 | .52221835 | 85 |
| Residual | -2.23758554 | 1.56117785 | 0E-8 | .85281182 | 85 |
| Std. Predicted Value | -4.931 | 1.678 | .000 | 1.000 | 85 |
| Std. Residual | -2.561 | 1.787 | .000 | .976 | 85 |

a. Dependent Variable: Y1

Regression Multikolinearitas

Variables Entered/Removed^a

| Model | Variables Entered | Variables Removed | Method |
|-------|--------------------------|-------------------|--------|
| 1 | X4,X3,X2,X1 ^b | . | Enter |

a. Dependent Variable: Y1

b. All requested variables entered.

Model Summary^b

| Model | R | R Square | Adjusted R Square | Std. Error of the Estimate |
|-------|-------------------|----------|-------------------|----------------------------|
| 1 | .522 ^a | .273 | .236 | .87387207 |

a. Predictors: (Constant), X4, X3, X1, X2

ANOVA^a

| Model | | Sum of Squares | df | Mean Square | F | Sig. |
|-------|------------|----------------|----|-------------|-------|-------------------|
| 1 | Regression | 22.908 | 4 | 5.727 | 7.499 | .000 ^b |
| | Residual | 61.092 | 80 | .764 | | |
| | Total | 84.000 | 84 | | | |

a. Dependent Variable: Y1

b. Predictors: (Constant), X4, X3, X1, X2

Coefficients^a

| Model | Unstandardized Coefficients | | Standardized Coefficients | t | Sig. | Collinearity Statistics | |
|--------------|-----------------------------|------------|---------------------------|--------|-------|-------------------------|-----------|
| | B | Std. Error | | | | Beta | Tolerance |
| 1 (Constant) | -1.512E-016 | .095 | | .000 | 1.000 | | |
| 1 X1 | .300 | .249 | .300 | 1.206 | .232 | .147 | 6.804 |
| 1 X2 | .124 | .251 | .124 | .493 | .623 | .145 | 6.902 |
| 1 X3 | .090 | .146 | .090 | .614 | .541 | .426 | 2.347 |
| 1 X4 | -.186 | .096 | -.186 | -1.930 | .057 | .982 | 1.018 |

a. Dependent Variable: Y1

Coefficient Correlations^a

| Model | | X4 | X3 | X1 | X2 | |
|-------|--------------|----|-------|-------|-------|-------|
| 1 | Correlations | X4 | 1.000 | .017 | .122 | -.131 |
| | | X3 | .017 | 1.000 | -.212 | -.241 |
| | | X1 | .122 | -.212 | 1.000 | -.821 |
| | | X2 | -.131 | -.241 | -.821 | 1.000 |
| 1 | Covariances | X4 | .009 | .000 | .003 | -.003 |
| | | X3 | .000 | .021 | -.008 | -.009 |
| | | X1 | .003 | -.008 | .062 | -.051 |
| | | X2 | -.003 | -.009 | -.051 | .063 |

Collinearity Diagnostics^a

| Model | Dimension | Eigenvalue | Condition Index | Variance Proportions | | | | |
|-------|-----------|------------|-----------------|----------------------|-----|-----|-----|-----|
| | | | | (Constant) | X1 | X2 | X3 | X4 |
| 1 | 1 | 2.605 | 1.000 | .00 | .02 | .02 | .05 | .00 |
| | 2 | 1.002 | 1.613 | .00 | .00 | .00 | .00 | .98 |
| | 3 | 1.000 | 1.614 | 1.00 | .00 | .00 | .00 | .00 |
| | 4 | .314 | 2.881 | .00 | .07 | .07 | .95 | .00 |
| | 5 | .080 | 5.707 | .00 | .91 | .91 | .00 | .02 |

a. Dependent Variable: Y1

Regression Heteroskedastisitas**Variables Entered/Removed^a**

| Model | Variables Entered | Variables Removed | Method |
|-------|-----------------------------|-------------------|--------|
| 1 | x4, x3, x1, x2 ^b | . | Enter |

a. Dependent Variable: ABS_RES

b. All requested variables entered.

Model Summary^b

| Model | R | R Square | Adjusted R Square | Std. Error of the Estimate |
|-------|-------------------|----------|-------------------|----------------------------|
| 1 | .310 ^a | .096 | .051 | .47366 |

a. Predictors: (Constant), x4, x3, x1, x2

b. Dependent Variable: ABS_RES

ANOVA^a

| Model | | Sum of Squares | df | Mean Square | F | Sig. |
|-------|------------|----------------|----|-------------|-------|-------------------|
| 1 | Regression | 1.908 | 4 | .477 | 2.126 | .085 ^b |
| | Residual | 17.949 | 80 | .224 | | |
| | Total | 19.857 | 84 | | | |

a. Dependent Variable: ABS_RES

b. Predictors: (Constant), x4, x3, x1, x2

Coefficients^a

| Model | | Unstandardized Coefficients | | Standardized Coefficients | t | Sig. |
|-------|------------|-----------------------------|------------|---------------------------|--------|------|
| | | B | Std. Error | Beta | | |
| 1 | (Constant) | .697 | .051 | | 13.557 | .000 |
| | x1 | -.327 | .135 | -.673 | -2.426 | .018 |
| | x2 | .216 | .136 | .444 | 1.590 | .116 |
| | x3 | .141 | .079 | .289 | 1.776 | .079 |
| | x4 | .033 | .052 | .069 | .639 | .525 |

a. Dependent Variable: ABS_RES

Residuals Statistics^a

| | Minimum | Maximum | Mean | Std. Deviation | N |
|----------------------|----------|---------|--------|----------------|----|
| Predicted Value | .2849 | 1.1640 | .6965 | .15072 | 85 |
| Residual | -1.13819 | 1.48717 | .00000 | .46225 | 85 |
| Std. Predicted Value | -2.731 | 3.102 | .000 | 1.000 | 85 |
| Std. Residual | -2.403 | 3.140 | .000 | .976 | 85 |

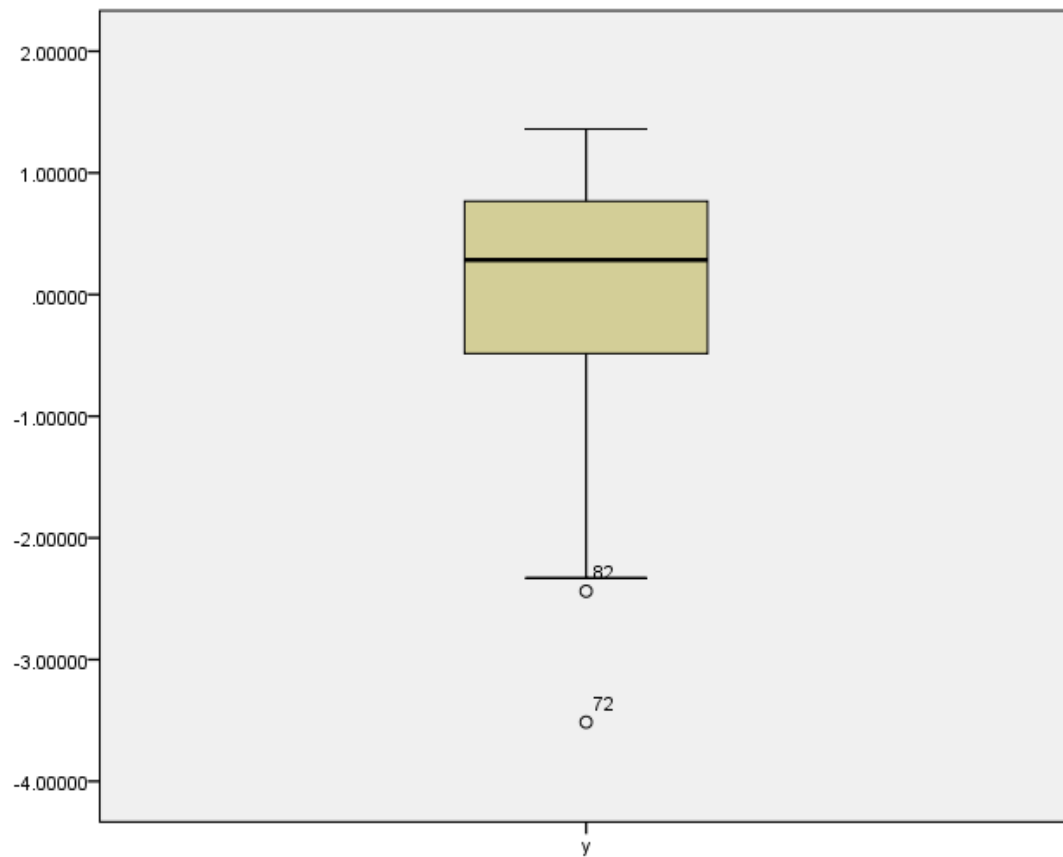
a. Dependent Variable: ABS_RES

Descriptives**Case Processing Summary**

| | Cases | | | | | |
|---|-------|---------|---------|---------|-------|---------|
| | Valid | | Missing | | Total | |
| | N | Percent | N | Percent | N | Percent |
| Y | 85 | 100.0% | 0 | 0.0% | 85 | 100.0% |

Descriptives

| | | Statistic | Std. Error |
|---|----------------------------------|------------|------------|
| Y | Mean | .0E-7 | .10846523 |
| | 95% Confidence Interval for Mean | | |
| | Lower Bound | -.2156950 | |
| | Upper Bound | .2156950 | |
| | 5% Trimmed Mean | .0564744 | |
| | Median | .2834954 | |
| | Variance | 1.000 | |
| | Std. Deviation | 1.00000000 | |
| | Minimum | -3.51410 | |
| | Maximum | 1.35956 | |
| | Range | 4.87366 | |
| | Interquartile Range | 1.25263 | |
| | Skewness | -.606 | .261 |
| | Kurtosis | .685 | .517 |



Hasil Transformasi Heteroskedastisitas

Variables Entered/Removed^a

| Model | Variables Entered | Variables Removed | Method |
|-------|--|-------------------|--------|
| 1 | LOG_X4, LOG_X1, LOG_X3, LOG_X2 ^b | . | Enter |

a. Dependent Variable: ABS_RES

b. All requested variables entered.

Model Summary^b

| Model | R | R Square | Adjusted R Square | Std. Error of the Estimate |
|-------|-------------------|----------|-------------------|----------------------------|
| 1 | .558 ^a | .311 | .100 | .22956 |

a. Predictors: (Constant), LOG_X4, LOG_X1, LOG_X3, LOG_X2

b. Dependent Variable: ABS_RES

ANOVA^a

| Model | | Sum of Squares | Df | Mean Square | F | Sig. |
|-------|------------|----------------|----|-------------|-------|-------------------|
| 1 | Regression | .310 | 4 | .077 | 1.470 | .268 ^b |
| | Residual | .685 | 13 | .053 | | |
| | Total | .995 | 17 | | | |

a. Dependent Variable: ABS_RES

b. Predictors: (Constant), LOG_X4, LOG_X1, LOG_X3, LOG_X2

Coefficients^a

| Model | | Unstandardized Coefficients | | Standardized Coefficients | t | Sig. |
|-------|------------|-----------------------------|------------|---------------------------|--------|------|
| | | B | Std. Error | Beta | | |
| 1 | (Constant) | .863 | .394 | | 2.189 | .047 |
| | LOG_X1 | -.064 | .122 | -.136 | -.523 | .610 |
| | LOG_X2 | -.161 | .292 | -.199 | -.553 | .590 |
| | LOG_X3 | -.397 | .191 | -.712 | -2.074 | .058 |
| | LOG_X4 | 1.340 | 1.745 | .246 | .768 | .456 |

a. Dependent Variable: ABS_RES

| |
|---------------------------------------|
| LAMPIRAN HASIL UJI REGRESI |
|---------------------------------------|

Hasil Uji Normalitas

Variables Entered/Removed^a

| Model | Variables | Variables | Method |
|-------|--------------------------|-----------|--------|
| | Entered | Removed | |
| 1 | X4,X3,X1,X2 ^b | . | Enter |

a. Dependent Variable: Y1

b. All requested variables entered.

Model Summary^b

| Model | R | R Square | Adjusted R Square | Std. Error of the Estimate |
|-------|-------------------|----------|-------------------|----------------------------|
| 1 | .522 ^a | .273 | .236 | .87387207 |

a. Predictors: X4,X3,X1,X2

b. Dependent Variable: Y1

ANOVA^a

| Model | | Sum of Squares | Df | Mean Square | F | Sig. |
|-------|------------|----------------|----|-------------|-------|-------------------|
| 1 | Regression | 22.908 | 4 | 5.727 | 7.499 | .000 ^b |
| | Residual | 61.092 | 80 | .764 | | |
| | Total | 84.000 | 84 | | | |

a. Dependent Variable: Y1

b. Predictors: X4,X3,X1,X2

Coefficients^a

| Model | Unstandardized Coefficients | | Standardize | t | Sig. |
|------------|-----------------------------|------------|---------------------------|--------|-------|
| | B | Std. Error | d Coefficients Beta | | |
| (Constant) | -1.512E-016 | .095 | | .000 | 1.000 |
| X1 | .300 | .249 | .300 | 1.206 | .232 |
| X2 | .124 | .251 | .124 | .493 | .623 |
| X3 | .090 | .146 | .090 | .614 | .541 |
| X4 | -.186 | .096 | -.186 | -1.930 | .057 |

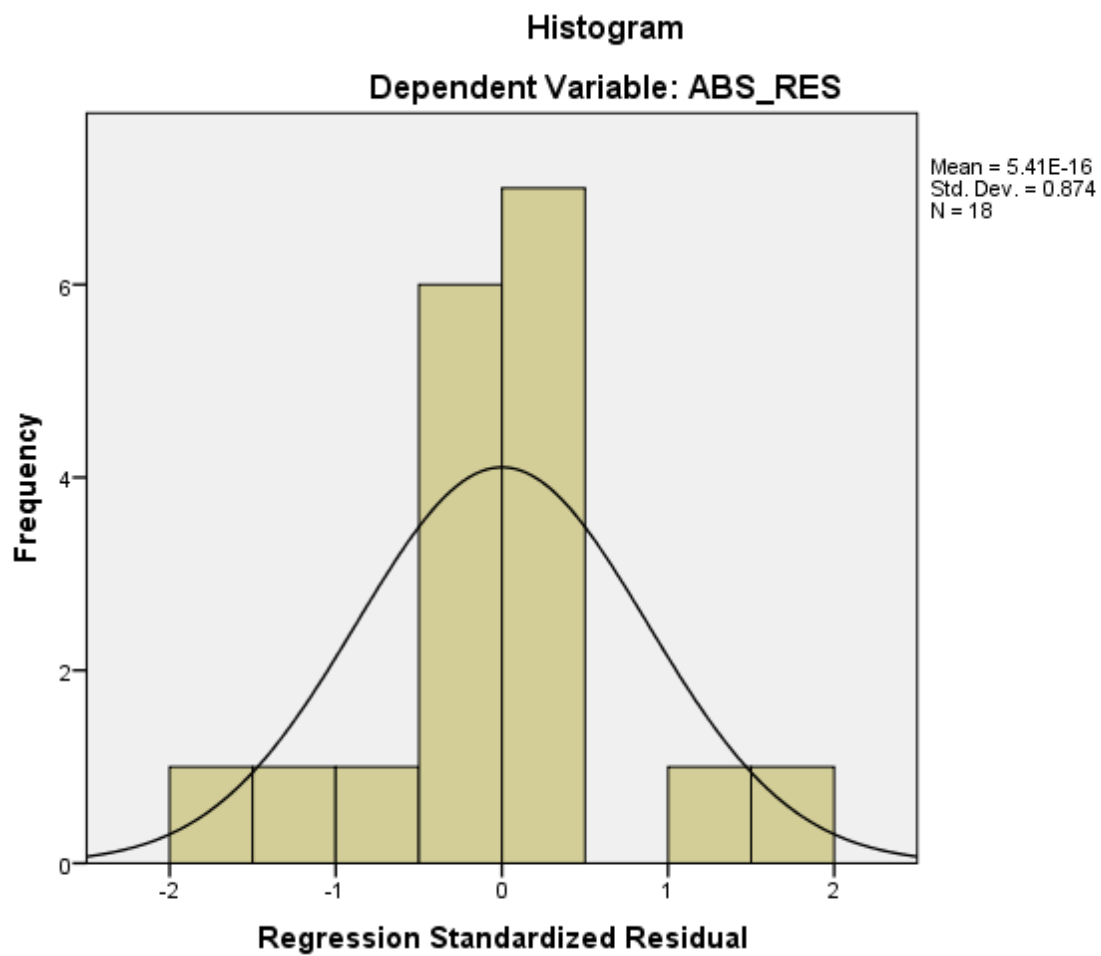
a. Dependent Variable: REGR factor score 1 for analysis 1

Residuals Statistics^a

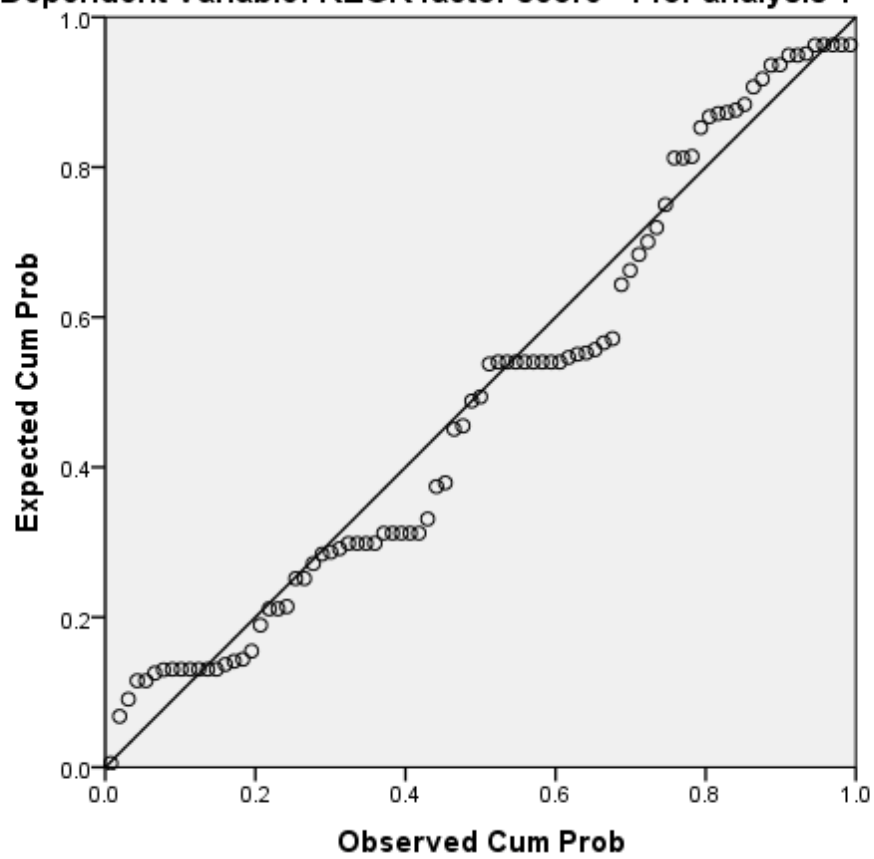
| | Minimum | Maximum | Mean | Std. Deviation | N |
|--------------------------------------|-------------|------------|------------|----------------|----|
| Predicted Value | -2.5751338 | .8762146 | 0E-7 | .52221835 | 85 |
| Std. Predicted Value | -4.931 | 1.678 | .000 | 1.000 | 85 |
| Standard Error of Predicted Value | .111 | .535 | .198 | .076 | 85 |
| Adjusted Predicted Value | -2.3081367 | .9840387 | .0089515 | .49823901 | 85 |
| Residual | -2.23758554 | 1.56117785 | 0E-8 | .85281182 | 85 |
| Std. Residual | -2.561 | 1.787 | .000 | .976 | 85 |
| Stud. Residual | -2.595 | 1.807 | -.005 | .997 | 85 |
| Deleted Residual | -2.29899883 | 1.60155141 | -.00895151 | .89191721 | 85 |
| Stud. Deleted Residual | -2.695 | 1.834 | -.003 | 1.006 | 85 |
| Mahal. Distance | .362 | 30.438 | 3.953 | 4.851 | 85 |
| Cook's Distance | .000 | .175 | .009 | .020 | 85 |

| | | | | | |
|-------------------------|------|------|------|------|----|
| Centered Leverage Value | .004 | .362 | .047 | .058 | 85 |
|-------------------------|------|------|------|------|----|

a. Dependent Variable: Y1



Normal P-P Plot of Regression Standardized Residual
Dependent Variable: REGR factor score 1 for analysis 1



Regression

Variables Entered/Removed^a

| Model | Variables Entered | Variables Removed | Method |
|-------|--|-------------------|--------|
| 1 | LOG_X4, LOG_X1, LOG_X3, LOG_X2 ^b | . | Enter |

a. Dependent Variable: y

b. All requested variables entered.

Model Summary^b

| Model | R | R Square | Adjusted R Square | Std. Error of the Estimate | Change Statistics | | | | |
|-------|-------------------|----------|-------------------|----------------------------|-------------------|----------|-----|-----|---------------|
| | | | | | R Square Change | F Change | df1 | df2 | Sig. F Change |
| 1 | .691 ^a | .478 | .317 | .64700225 | .478 | 2.973 | 4 | 13 | .060 |

a. Predictors: (Constant), LOG_X4, LOG_X1, LOG_X3, LOG_X2

b. Dependent Variable: y

ANOVA^a

| Model | | Sum of Squares | df | Mean Square | F | Sig. |
|-------|------------|----------------|----|-------------|-------|-------------------|
| 1 | Regression | 4.978 | 4 | 1.245 | 2.973 | .060 ^b |
| | Residual | 5.442 | 13 | .419 | | |
| | Total | 10.420 | 17 | | | |

a. Dependent Variable: y

b. Predictors: (Constant), LOG_X4, LOG_X1, LOG_X3, LOG_X2

Coefficients^a

| Model | Unstandardized Coefficients | | Standardized Coefficients | t | Sig. | Correlations | | |
|--------------|-----------------------------|------------|---------------------------|--------|------|--------------|---------|---------|
| | B | Std. Error | Beta | | | Zero-order | Partial | Partial |
| 1 (Constant) | 1.989 | 1.111 | | 1.790 | .097 | | | |
| LOG_X1 | .144 | .344 | .095 | .419 | .682 | .115 | .115 | .084 |
| LOG_X2 | -1.879 | .822 | -.717 | -2.286 | .040 | -.382 | -.535 | -.458 |
| LOG_X3 | -.231 | .539 | -.128 | -.429 | .675 | .376 | -.118 | -.086 |
| LOG_X4 | 12.559 | 4.919 | .712 | 2.553 | .024 | .339 | .578 | .512 |

a. Dependent Variable: y