

Jonckheere-Terpstra Ordered Trend Test

Jonckheere-Terpstra Ordered Trend Test
Test-specific data preparation and execution

>Warning # 4492 on line 12824 in column 42. Text: internet_bin
>The (ADD) VALUE LABELS command included a symbol other than a value where a
>value (either numeric or string) was expected. For compatibility with
>previous systems, a parenthesized value would have been acceptable. All valu
e
>labels up to the next slash will be ignored.

Jonckheere-Terpstra ordered alternatives test

Jonckheere-Terpstra ordered alternatives test
Prespecified monotone order studytime 1 through 4 for G3

NPar Tests

Notes

Output Created		16-JUL-2026 16:46:49
Comments		
Input	Data	D:\DATA ANALYSIS\J Nonparametric Tests\Jonckheere Terpstra Test\dataset.csv
	Active Dataset	JonckheereTerpstraTestD ata
	Filter	<none>
	Weight	<none>
	Split File	<none>
	N of Rows in Working Data File	649
Missing Value Handling	Definition of Missing	User-defined missing values are treated as missing.
	Cases Used	Statistics for each test are based on all cases with valid data for the variable (s) used in that test.
Syntax		NPAR TESTS /J-T=G3 BY studytime(1,4) /STATISTICS=DESCRIPT IVES QUARTILES.
Resources	Processor Time	00:00:00.05
	Elapsed Time	00:00:00.40
	Number of Cases Allowed ^a	449389

a. Based on availability of workspace memory.

[JonckheereTerpstraTestData]

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Descriptive Statistics

	N	Mean	Std. Deviation	Minimum	Maximum	Percentiles	
						25th	50th (Median)
G3	649	11.91	3.231	0	19	10.00	12.00
studytime	649	1.93	.830	1	4	1.00	2.00

Descriptive Statistics

	Percentiles
	75th
G3	14.00
studytime	2.00

Jonckheere-Terpstra Test^a

	G3
Number of Levels in studytime	4
N	649
Observed J-T Statistic	85922.000
Mean J-T Statistic	68149.500
Std. Deviation of J-T Statistic	2538.027
Std. J-T Statistic	7.002
Asymp. Sig. (2-tailed)	.000

a. Grouping Variable: studytime

Nonparametric Correlations

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Notes

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Comments		
Input	Data	D:\DATA ANALYSIS\J Nonparametric Tests\Jonckheere Terpstra Test\dataset.csv
	Active Dataset	JonckheereTerpstraTestD ata
	Filter	<none>
	Weight	<none>
	Split File	<none>
	N of Rows in Working Data File	649
Missing Value Handling	Definition of Missing	User-defined missing values are treated as missing.
	Cases Used	Statistics for each pair of variables are based on all the cases with valid data for that pair.
Syntax		NONPAR CORR VARIABLES=studytime G3 /PRINT=SPEARMAN TWOTAIL /MISSING=PAIRWISE.
Resources	Processor Time	00:00:00.02
	Elapsed Time	00:00:00.02
	Number of Cases Allowed	629145 cases ^a

a. Based on availability of workspace memory

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Correlations

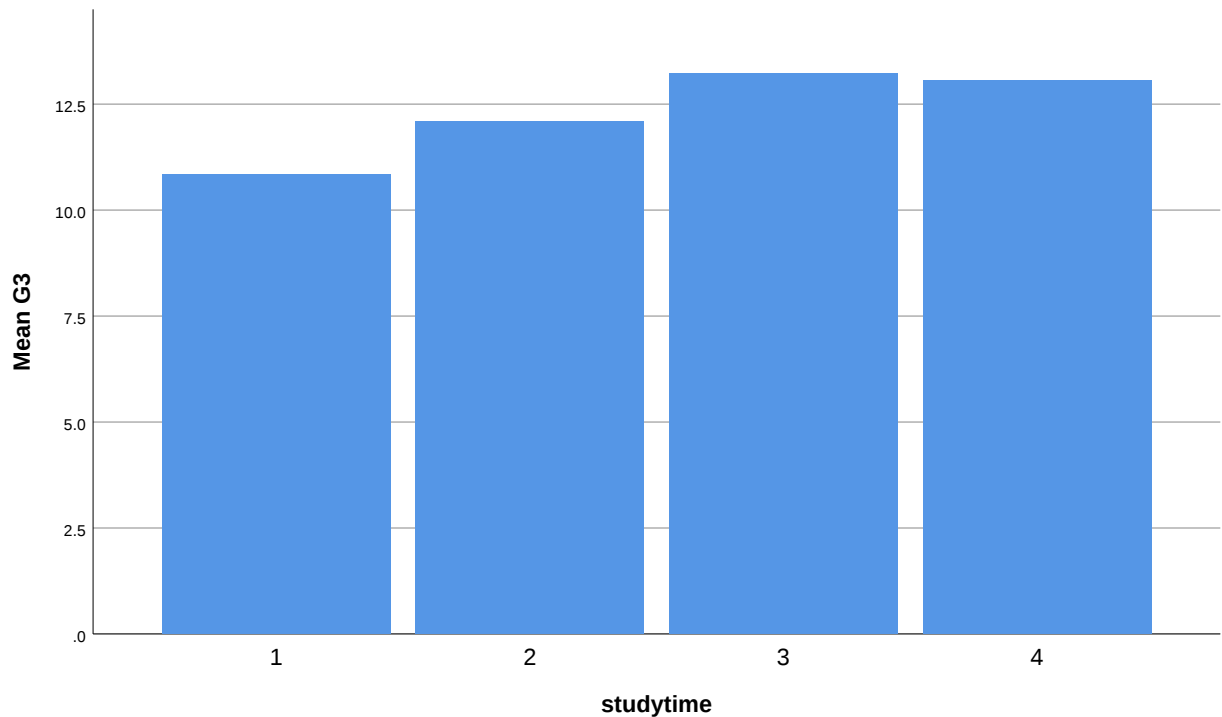
		studytime	G3
Spearman's rho	studytime	Correlation Coefficient	1.000
		Sig. (2-tailed)	.
		N	649
	G3	Correlation Coefficient	.275
		Sig. (2-tailed)	.000
		N	649

Graph

Notes

Output Created		16-JUL-2026 16:46:50
Comments		
Input	Data	D:\DATA ANALYSIS\J Nonparametric Tests\Jonckheere Terpstra Test\dataset.csv
	Active Dataset	JonckheereTerpstraTestD ata
	Filter	<none>
	Weight	<none>
	Split File	<none>
	N of Rows in Working Data File	649
Syntax		GRAPH /BAR(SIMPLE) =MEAN(G3) BY ...
Resources	Processor Time	00:00:00.77
	Elapsed Time	00:00:01.79

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=====
JONCKHEERE-TERPSTRA ORDERED TREND TEST
Formula: JT = sum_{i<j}[number(Y_j>Y_i)+0.5 number(Y_j=Y_i)]; p uses fixed-size permutation.
Variables: G3, ordered studytime
jt_statistic = 85922.0
one_sided_monte_carlo_p = 0.0004997501249375312
permutation_null_mean = 68196.97775
permutation_null_sd = 2591.876165185707
permutations = 2000
seed = 20260716
z_from_permutation = 6.838684072983094
Cross-check status: pass
=====
```