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### Algorithm and examples

Method  Assignment problem using Hungarian method-1

#### Hungarian method

Type your data (either with heading or without heading).  
For separator you can use space or tab  
for sample click random button

1 2 3 4  
A 60 48 60 70  
B 20 60 50 70  
C 20 30 40 60  
D 30 10 30 40

OR

Minimize  Maximize

Rows: 4 Columns: 4 Generate

Work	1	2	3	4
A	60	48	60	70
B	20	60	50	70
C	20	30	40	60
D	30	10	30	40

Find Random New

Solution Help

Solution will be displayed step by step (in 4 parts)

Solution

Step-1: Find out the each row minimum element and subtract it from that row

The number of rows = 4 and columns = 4

1 2 3 4

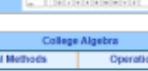
A 60 48 60 70

B 20 60 50 70

C 20 30 40 60

D 30 10 30 40





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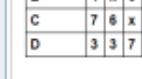
Home &gt; Operation Research calculators &gt; Travelling salesman problem using hungarian method calculator

**Algorithm and examples**Method: **2-TSP using Hungarian method****Hungarian method**Type your data (either with heading or without heading),  
for separator you can use space or tab  
for sample click random buttonA B C D  
A x 4 7 3  
B 4 x 6 3  
C 7 6 x 7  
D 3 3 7 x**OR** Minimize  MaximizeRows: 4 Columns: 4 [Generate](#)

Work	A	B	C	D
A	x	4	7	3
B	4	x	6	3
C	7	6	x	7
D	3	3	7	x

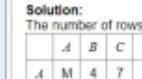
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Solution will be displayed step by step (in 4 parts)

**Solution**

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**Find Solution of Travelling salesman problem (MIN case)**

Work	A	B	C	D
A	x	4	7	3
B	4	x	6	3
C	7	6	x	7
D	3	3	7	x

**Solution:**

The number of rows = 4 and columns = 4

A	B	C	D
A	M	4	7
B	4	M	6
C	7	6	M
D	3	3	7

A	B	C	D
A	M	4	7
B	4	M	6
C	7	6	M
D	3	3	7

A	B	C	D
A	M	4	7
B	4	M	6
C	7	6	M
D	3	3	7

A	B	C	D
A	M	4	7
B	4	M	6
C	7	6	M
D	3	3	7

A	B	C	D
A	M	4	7
B	4	M	6
C	7	6	M
D	3	3	7

A	B	C	D
A	M	4	7
B	4	M	6
C	7	6	M
D	3	3	7

A	B	C	D
A	M	4	7
B	4	M	6
C	7	6	M
D	3	3	7

A	B	C	D
A	M	4	7
B	4	M	6
C	7	6	M
D	3	3	7

A	B	C	D
A	M	4	7
B	4	M	6
C	7	6	M
D	3	3	7

A	B	C	D
A	M	4	7
B	4	M	6
C	7	6	M
D	3	3	7

A	B	C	D
A	M	4	7
B	4	M	6
C	7	6	M
D	3	3	7

A	B	C	D
A	M	4	7
B	4	M	6
C	7	6	M
D	3	3	7

A	B	C	D
A	M	4	7
B	4	M	6
C	7	6	M
D	3	3	7

A	B	C	D
A	M	4	7
B	4	M	6
C	7	6	M
D	3	3	7

A	B	C	D
A	M	4	7
B	4	M	6
C	7	6	M
D	3	3	7

A	B	C	D
A	M	4	7
B	4	M	6
C	7	6	M
D	3	3	7

A	B	C	D
A	M	4	7
B	4	M	6
C	7	6	M
D	3	3	7

A	B	C	D
A	M	4	7
B	4	M	6
C	7	6	M
D	3	3	7

A	B	C	D
A	M	4	7
B	4	M	6
C	7	6	M
D	3	3	7

A	B	C	D

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