

The following matrix shows the shortest distances between every pair of vertices

0 5 8 9

8 0 3 4

5 10 0 1

8 13 3 0

Required No of steps : 378

Minimum no. of multiplication sign used : 210298

No. of step Required : 204

Maximum no. of edit required : 7

No. of steps Required : 872

Vertex	Distance from Source
0	0
1	4
2	12
3	19
4	21
5	11
6	9
7	8
8	14

No. of steps required :191

Maximum profit earned = 440
 No. of required steps : 48

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. . Q .
Q . . .
. . . Q
. Q . .
  
```

No. of required steps :381

Edges of MST are

6 - 7
 2 - 8
 5 - 6
 0 - 1
 2 - 5
 2 - 3
 0 - 7
 3 - 4

Weight of MST is 37

Edge	Weight
0 - 1	2
1 - 2	3
0 - 3	6
1 - 4	5

```
8 9 14 22
8 14 15 16
15 16 22
```

Following is maximum profit sequence of jobs
c a e