5+5+5

Source node

[1 2 3 4 5]

Middle node

[6 7 8 9 10]

Destination node

[11 12 13 14 15]

**Cost**

p1 o6 d11 1  
p1 o6 d12 10  
p1 o6 d13 8  
p1 o6 d14 8  
p1 o6 d15 9  
p1 o7 d11 8  
p1 o7 d12 1  
p1 o7 d13 9  
p1 o7 d14 8  
p1 o7 d15 3  
p1 o8 d11 5  
p1 o8 d12 6  
p1 o8 d13 2  
p1 o8 d14 9  
p1 o8 d15 9  
p1 o9 d11 6  
p1 o9 d12 8  
p1 o9 d13 1  
p1 o9 d14 6  
p1 o9 d15 1  
p1 o10 d11 5  
p1 o10 d12 7  
p1 o10 d13 8  
p1 o10 d14 10  
p1 o10 d15 9  
p2 o6 d11 7  
p2 o6 d12 5  
p2 o6 d13 5  
p2 o6 d14 3  
p2 o6 d15 10  
p2 o7 d11 8  
p2 o7 d12 2  
p2 o7 d13 2  
p2 o7 d14 6  
p2 o7 d15 7  
p2 o8 d11 7  
p2 o8 d12 8  
p2 o8 d13 6  
p2 o8 d14 2  
p2 o8 d15 8  
p2 o9 d11 10  
p2 o9 d12 5  
p2 o9 d13 1  
p2 o9 d14 8  
p2 o9 d15 3  
p2 o10 d11 5  
p2 o10 d12 4  
p2 o10 d13 2  
p2 o10 d14 5  
p2 o10 d15 8  
p3 o6 d11 7  
p3 o6 d12 4  
p3 o6 d13 3  
p3 o6 d14 8  
p3 o6 d15 5  
p3 o7 d11 8  
p3 o7 d12 9  
p3 o7 d13 10  
p3 o7 d14 4  
p3 o7 d15 8  
p3 o8 d11 1  
p3 o8 d12 6  
p3 o8 d13 10  
p3 o8 d14 1  
p3 o8 d15 3  
p3 o9 d11 6  
p3 o9 d12 1  
p3 o9 d13 1  
p3 o9 d14 10  
p3 o9 d15 5  
p3 o10d 11 7  
p3 o10 d12 7  
p3 o10 d13 6  
p3 o10 d14 8  
p3 o10 d15 2  
p4 o6 d11 7  
p4 o6 d12 2  
p4 o6 d13 8  
p4 o6 d14 2  
p4 o6 d15 10  
p4 o7 d11 4  
p4 o7 d12 3  
p4 o7 d13 4  
p4 o7 d14 9  
p4 o7 d15 7  
p4 o8 d11 7  
p4 o8 d12 5  
p4 o8 d13 5  
p4 o8 d14 9  
p4 o8 d15 8  
p4 o9 d11 1  
p4 o9 d12 5  
p4 o9 d13 4  
p4 o9 d14 2  
p4 o9 d15 1  
p4 o10 d11 9  
p4 o10 d12 10  
p4 o10 d13 9  
p4 o10 d14 4  
p4 o10 d15 8  
p5 o6 d11 10  
p5 o6 d12 6  
p5 o6 d13 7  
p5 o6 d14 7  
p5 o6 d15 8  
p5 o7 d11 3  
p5 o7 d12 8  
p5 o7 d13 5  
p5 o7 d14 4  
p5 o7 d15 9  
p5 o8 d11 7  
p5 o8 d12 6  
p5 o8 d13 6  
p5 o8 d14 1  
p5 o8 d15 8  
p5 o9 d11 2  
p5 o9 d12 10  
p5 o9 d13 4  
p5 o9 d14 1  
p5 o9 d15 6  
p5 o10 d11 5  
p5 o10 d12 2  
p5 o10 d13 3  
p5 o10 d14 10  
p5 o10 d15 2

**Time window**

(node inode k)| [Ak Bk] value  
  
(1 11) | [13 17]  
(1 12) | [12 20]  
(1 13) | [10 17]  
(1 14) | [12 17]  
(1 15) | [10 19]  
(2 11) | [15 19]  
(2 12) | [11 16]  
(2 13) | [10 16]  
(2 14) | [14 18]  
(2 15) | [13 20]  
(3 11) | [14 16]  
(3 12) | [12 18]  
(3 13) | [10 19]  
(3 14) | [15 16]  
(3 15) | [13 16]  
(4 11) | [15 16]  
(4 12) | [12 16]  
(4 13) | [10 20]  
(4 14) | [10 20]  
(4 15) | [14 16]  
(5 11) | [11 18]  
(5 12) | [12 17]  
(5 13) | [12 17]  
(5 14) | [10 18]  
(5 15) | [14 16]

Supplier

supplier Sj Value  
node 6 supply 11  
node 7 supply 15  
node 8 supply 16  
node 9 supply 18  
node 10 supply 16

Demand

Demand Dk Value  
node 11 demand 20  
node 12 demand 19  
node 13 demand 11  
node 14 demand 13  
node 15 demand 13

Travel time (ijk)

travel time of (1 6 11) 11  
travel time of (1 6 12) 14  
travel time of (1 6 13) 23  
travel time of (1 6 14) 15  
travel time of (1 6 15) 24  
travel time of (1 7 11) 19  
travel time of (1 7 12) 20  
travel time of (1 7 13) 11  
travel time of (1 7 14) 21  
travel time of (1 7 15) 17  
travel time of (1 8 11) 17  
travel time of (1 8 12) 19  
travel time of (1 8 13) 13  
travel time of (1 8 14) 19  
travel time of (1 8 15) 21  
travel time of (1 9 11) 25  
travel time of (1 9 12) 21  
travel time of (1 9 13) 11  
travel time of (1 9 14) 13  
travel time of (1 9 15) 13  
travel time of (1 10 11) 11  
travel time of (1 10 12) 10  
travel time of (1 10 13) 22  
travel time of (1 10 14) 14  
travel time of (1 10 15) 14  
travel time of (2 6 11) 19  
travel time of (2 6 12) 11  
travel time of (2 6 13) 24  
travel time of (2 6 14) 19  
travel time of (2 6 15) 15  
travel time of (2 7 11) 15  
travel time of (2 7 12) 23  
travel time of (2 7 13) 17  
travel time of (2 7 14) 24  
travel time of (2 7 15) 21  
travel time of (2 8 11) 19  
travel time of (2 8 12) 17  
travel time of (2 8 13) 18  
travel time of (2 8 14) 12  
travel time of (2 8 15) 24  
travel time of (2 9 11) 10  
travel time of (2 9 12) 19  
travel time of (2 9 13) 15  
travel time of (2 9 14) 19  
travel time of (2 9 15) 21  
travel time of (2 10 11) 12  
travel time of (2 10 12) 17  
travel time of (2 10 13) 21  
travel time of (2 10 14) 20  
travel time of (2 10 15) 23  
travel time of (3 6 11) 14  
travel time of (3 6 12) 22  
travel time of (3 6 13) 15  
travel time of (3 6 14) 10  
travel time of (3 6 15) 21  
travel time of (3 7 11) 16  
travel time of (3 7 12) 17  
travel time of (3 7 13) 16  
travel time of (3 7 14) 19  
travel time of (3 7 15) 11  
travel time of (3 8 11) 10  
travel time of (3 8 12) 15  
travel time of (3 8 13) 22  
travel time of (3 8 14) 16  
travel time of (3 8 15) 10  
travel time of (3 9 11) 12  
travel time of (3 9 12) 14  
travel time of (3 9 13) 19  
travel time of (3 9 14) 23  
travel time of (3 9 15) 24  
travel time of (3 10 11) 24  
travel time of (3 10 12) 19  
travel time of (3 10 13) 18  
travel time of (3 10 14) 15  
travel time of (3 10 15) 10  
travel time of (4 6 11) 12  
travel time of (4 6 12) 25  
travel time of (4 6 13) 20  
travel time of (4 6 14) 11  
travel time of (4 6 15) 20  
travel time of (4 7 11) 17  
travel time of (4 7 12) 12  
travel time of (4 7 13) 16  
travel time of (4 7 14) 16  
travel time of (4 7 15) 16  
travel time of (4 8 11) 11  
travel time of (4 8 12) 14  
travel time of (4 8 13) 12  
travel time of (4 8 14) 19  
travel time of (4 8 15) 22  
travel time of (4 9 11) 21  
travel time of (4 9 12) 13  
travel time of (4 9 13) 18  
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travel time of (4 9 15) 17  
travel time of (4 10 11) 14  
travel time of (4 10 12) 10  
travel time of (4 10 13) 11  
travel time of (4 10 14) 19  
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travel time of (5 7 15) 22  
travel time of (5 8 11) 16  
travel time of (5 8 12) 21  
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travel time of (5 8 14) 14  
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travel time of (5 9 11) 13  
travel time of (5 9 12) 18  
travel time of (5 9 13) 25  
travel time of (5 9 14) 16  
travel time of (5 9 15) 14  
travel time of (5 10 11) 11  
travel time of (5 10 12) 10  
travel time of (5 10 13) 23  
travel time of (5 10 14) 23  
travel time of (5 10 15) 23