Dijkstra from node 4.

Visit 4:-1:-1

Find: 2:15, 3:3, 5:6, 6:8

Visited: 4:-1:-1

Queue: 2:15:4, 3:3:4, 5:6:4, 6:8:4

Visit 3:3:4

Find: 1:12, 6:7

Visited: 3:3:4, 4:-1:-1

Queue: 1:12:3, 2:15:4, 5:6:4, 6:7:3

Visit 5:6:4

Find: 2:8, 7:14

Visited: 3:3:4, 4:-1:-1, 5:6:4

Queue: 1:12:3, 2:8:5, 6:7:3, 7:14:5

Visit 6:7:3

Find: 7:24

Visited: 3:3:4, 4:-1:-1, 5:6:4, 6:7:3 Queue: 1:12:3, 2:8:5, 7:14:5

Visit 2:8:5

Find: 1:15

Visited: 2:8:5, 3:3:4, 4:-1:-1, 5:6:4, 6:7:3

Queue: 1:12:3, 7:14:5

Visits to 1:12:3 and 7:14:5 find nothing

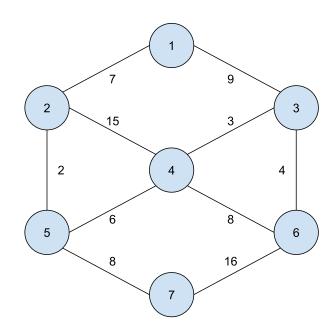
Final: 1:12:3, 2:8:5, 3:3:4, 4:-1:-1, 5:6:4, 6:7:3, 7:14:5

4 5 6

4 6 8

5 7 8

6 7 16



Dijkstra from node 5.

Visit 5:-1:-1

Find: 2:2, 4:6, 7:8 Visited: 5:-1:-1

Queue: 2:2:5, 4:6:5, 7:8:5

Visit 2:2:5

Find: 1:9, 4:17

Visited: 2:2:5, 5:-1:-1 Queue: 1:9:2, 4:6:5, 7:8:5

Visit 4:6:5

Find: 3:9, 6:14

Visited: 2:2:5, 4:6:5, 5:-1:-1 Queue: 1:9:2, 3:9:4, 6:14:4, 7:8:5

Visit 7:8:5

Find: 6:24

Visited: 2:2:5, 4:6:5, 5:-1:-1, 7:8:5 Queue: 1:9:2, 3:9:4, 6:14:4

Visit 1:9:2

Find: 3:18

Visited: 1:9:2, 2:2:5, 4:6:5, 5:-1:-1, 7:8:5

Queue: 3:9:4, 6:14:4

Visit 3:9:4

Find: 6:13

Visited: 1:9:2, 2:2:5, 3:9:4, 4:6:5, 5:-1:-1, 7:8:5

Queue: 6:13:3

Visit to 6:13:3 finds nothing

Final: 1:9:2, 2:2:5, 3:9:4, 4:6:5, 5:-1:-1, 6:13:3, 7:8:5

7				
5				
10				
1	2	7		
1	3	9		
2	4	15		
2	5	2		
3	4	3		
3	6	4		
4	5	6		
4	6	8		

5 7 8 6 7 16



