

Input 1:

8 20  
0 1 2 8  
0 2 3 7  
0 3 1 7  
0 4 4 6  
1 2 4 8  
1 3 1 5  
1 4 3 7  
1 6 4 8  
2 3 1 5  
2 4 2 4  
2 5 7 8  
2 6 4 7  
3 4 2 7  
3 5 1 4  
3 6 2 5  
3 7 1 9  
4 5 3 7  
4 7 3 4  
5 6 1 2  
5 7 2 6

Routing tables after a few iterations of ospf:

Routing Table for Node No. 0 at time 20:

Destination	Path	Cost
2	0-2	3
1	0-1	2
4	0-4	5
3	0-2-3	5
5	0-2-3-5	7
6	0-2-6	7
7	0-2-3-7	7

Routing Table for Node No. 1 at time 20:

Destination	Path	Cost
0	1-0	2
3	1-3	2
4	1-4	5
6	1-6	5
2	1-2	4
5	1-3-5	4

	7		1-3-7		4	
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Routing Table for Node No. 2 at time 20:

	Destination		Path		Cost	
	0		2-0		3	
	1		2-0-1		5	
	4		2-4		2	
	3		2-3		3	
	6		2-6		4	
	5		2-4-5		5	
	7		2-4-7		5	

Routing Table for Node No. 3 at time 20:

	Destination		Path		Cost	
	1		3-1		2	
	2		3-2		4	
	0		3-5-0		1	
	4		3-4		4	
	5		3-5		1	
	6		3-6		2	
	7		3-5-7		3	

Routing Table for Node No. 4 at time 20:

	Destination		Path		Cost	
	3		4-3		5	
	0		4-0		4	
	1		4-1		5	
	2		4-2		3	
	7		4-7		3	
	5		4-5		5	
	6		4-5-6		6	

Routing Table for Node No. 5 at time 20:

	Destination		Path		Cost	
	3		5-3		1	
	2		5-3-2		5	
	4		5-4		3	
	0		5-3-1-0		5	
	1		5-3-1		3	
	6		5-6		1	
	7		5-7		2	

Routing Table for Node No. 6 at time 20:

	Destination		Path		Cost	
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	5		6-5		1	
	2		6-5-0-2		4	
	1		6-5-0-1		3	
	3		6-3		2	
	0		6-5-0		1	
	4		6-5-4		4	
	7		6-5-7		3	

Routing Table for Node No. 7 at time 20:

	Destination		Path		Cost	
	3		7-5-3		3	
	4		7-4		3	
	5		7-5		2	
	0		7-5-0		2	
	1		7-5-0-1		4	
	2		7-5-0-2		5	
	6		7-5-6		3	

Input 2:

8 20  
0 5 4 6  
0 2 1 8  
0 6 2 3  
0 7 2 5  
1 2 4 8  
1 7 1 5  
1 4 4 8  
1 5 4 8  
2 3 1 8  
2 4 2 3  
2 7 1 2  
2 6 4 7  
3 4 2 7  
3 5 1 4  
3 6 2 5  
3 7 7 8  
4 5 3 7  
4 6 4 5  
5 6 1 2  
5 7 2 4

Routing tables after a few iterations of ospf:

Routing Table for Node No. 0 at time 20:

Destination	Path	Cost
5	0-6-5	3
6	0-6	2
2	0-7-2	3
7	0-7	2
1	0-7-1	5
3	0-7-2-3	4
4	0-7-2-4	5

Routing Table for Node No. 1 at time 20:

Destination	Path	Cost
0	1-2-3-0	5
7	1-7	4
2	1-2	4
4	1-2-4	6
5	1-5	6
3	1-2-3	5
6	1-5-6	7

Routing Table for Node No. 2 at time 20:

Destination	Path	Cost
1	2-7-1	5
0	2-0	1
4	2-4	2
7	2-7	1
6	2-0-6	3
3	2-3	5
5	2-7-5	3

Routing Table for Node No. 3 at time 20:

Destination	Path	Cost
2	3-2	1
0	3-4-0	2
1	3-2-1	5
7	3-2-7	2
6	3-5-6	2
4	3-4	2
5	3-5	1

Routing Table for Node No. 4 at time 20:

Destination	Path	Cost
1	4-2-1	6
3	4-3	2
2	4-2	2
0	4-3-0	2
5	4-5	3
6	4-6	4
7	4-2-7	3

Routing Table for Node No. 5 at time 20:

Destination	Path	Cost
3	5-3	1
4	5-3-4	3
1	5-1	4
0	5-3-0	1
2	5-3-2	2
7	5-7	3
6	5-6	1

Routing Table for Node No. 6 at time 20:

Destination	Path	Cost
4	6-4	4
2	6-5-3-2	3
5	6-5	1
0	6-0	2
3	6-5-3	2
1	6-5-1	7
7	6-5-7	4

Routing Table for Node No. 7 at time 20:

Destination	Path	Cost
3	7-2-3	2
0	7-0	2
1	7-1	4
2	7-2	1
5	7-5	3
4	7-2-4	3
6	7-0-6	4