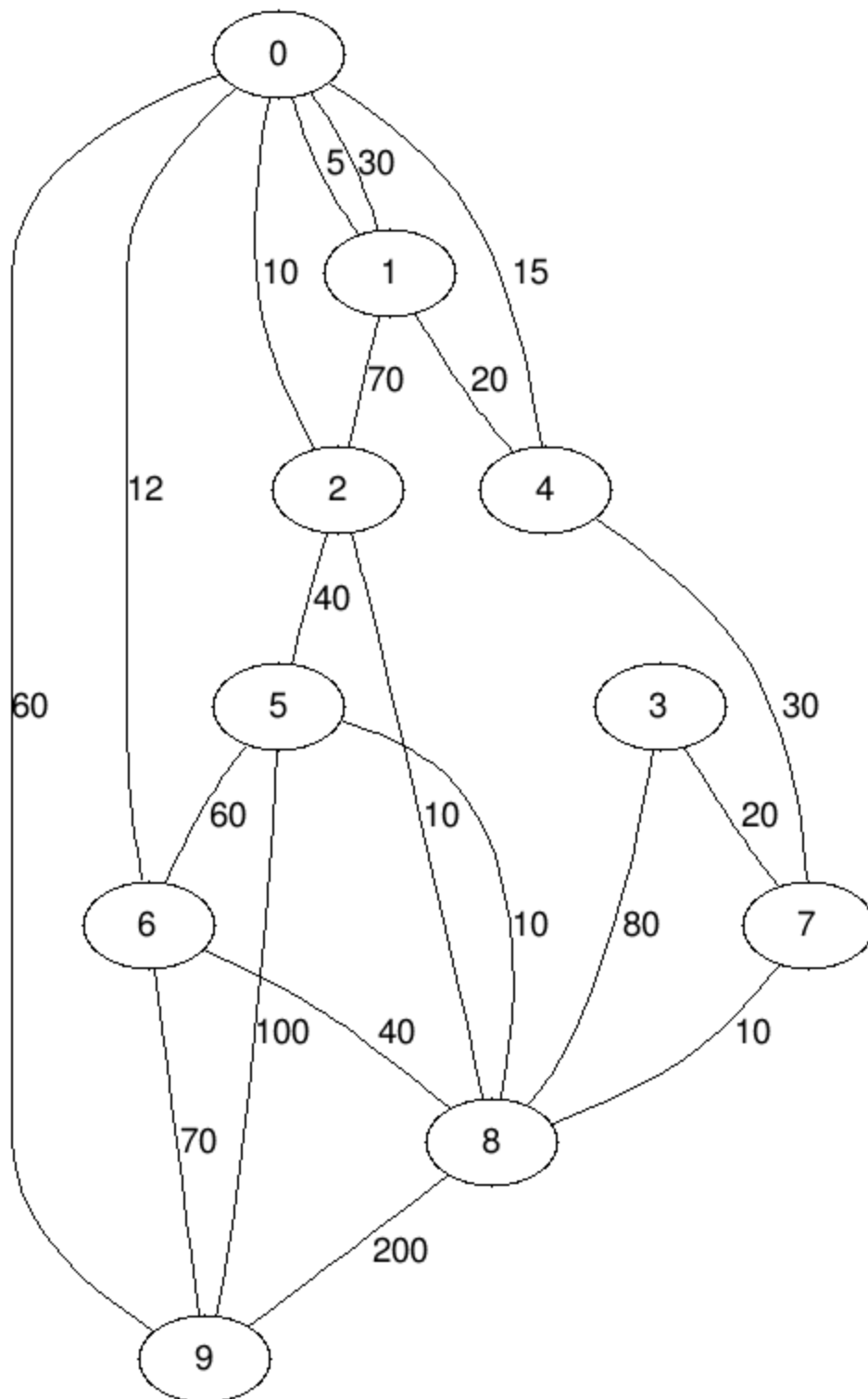


Report

Input # 1

10 20
0 1 5 20
0 1 30 50
0 2 10 24
0 4 15 60
0 6 12 80
0 9 60 100
1 2 70 200
1 4 20 30
2 5 40 90
2 8 10 100
3 7 20 90
3 8 80 120
4 7 30 310
5 6 60 70
5 8 10 70
5 9 100 150
6 8 40 90
6 9 70 80
7 8 10 20
8 9 200 300



Routing Tables:

1 :

Destination	Path	Cost
1	0 - 1	44
2	0 - 2	16
3	0 - 2 - 8 - 7 - 3	94
4	0 - 4	32
5	0 - 2 - 8 - 5	77
6	0 - 6	17
7	0 - 2 - 8 - 7	71
8	0 - 2 - 8	54
9	0 - 9	80

2 :

Destination	Path	Cost
0	1 - 4 - 0	40
2	1 - 4 - 0 - 2	64
3	1 - 4 - 0 - 2 - 8 - 7 - 3	142
4	1 - 4	20
5	1 - 4 - 0 - 2 - 5	109
6	1 - 4 - 0 - 6	69
7	1 - 4 - 0 - 2 - 8 - 7	119
8	1 - 4 - 0 - 2 - 8	102
9	1 - 4 - 0 - 9	108

3:

Destination	Path	Cost
0	2 - 0	24
1	2 - 0 - 1	68
3	2 - 8 - 7 - 3	79
4	2 - 0 - 4	56
5	2 - 8 - 5	34
6	2 - 0 - 6	41
7	2 - 8 - 7	28
8	2 - 8	18
9	2 - 0 - 9	92

4:

Destination | Path | Cost |

0| 3 - 7 - 8 - 2 - 0| 165|
1| 3 - 7 - 8 - 2 - 0 - 4 - 1| 209|
2| 3 - 7 - 8 - 2| 150|
4| 3 - 7 - 8 - 2 - 0 - 4| 189|
5| 3 - 7 - 8 - 5| 120|
6| 3 - 7 - 8 - 6| 151|
7| 3 - 7| 51|
8| 3 - 7 - 8| 71|
9| 3 - 7 - 8 - 5 - 9| 225|

5:

Destination | Path | Cost |

0| 4 - 0| 20|
1| 4 - 1| 23|
2| 4 - 0 - 2| 36|
3| 4 - 0 - 2 - 8 - 7 - 3| 135|
5| 4 - 0 - 2 - 5| 81|
6| 4 - 0 - 6| 49|
7| 4 - 0 - 2 - 8 - 7| 84|
8| 4 - 0 - 2 - 8| 74|
9| 4 - 0 - 9| 88|

6:

Destination | Path | Cost |

0| 5 - 8 - 2 - 0| 58|
1| 5 - 8 - 2 - 0 - 4 - 1| 101|
2| 5 - 8 - 2| 34|
3| 5 - 8 - 7 - 3| 77|
4| 5 - 8 - 2 - 0 - 4| 78|
6| 5 - 8 - 6| 59|
7| 5 - 8 - 7| 26|
8| 5 - 8| 16|
9| 5 - 8 - 2 - 0 - 9| 126|

7:

Destination | Path | Cost |

0	6 - 0	29
1	6 - 0 - 1	73
2	6 - 0 - 2	53
3	6 - 8 - 7 - 3	126
4	6 - 0 - 4	49
5	6 - 8 - 5	61
7	6 - 8 - 7	62
8	6 - 8	45
9	6 - 9	76

8:

Destination Path	Cost	
<hr/>		
0	7 - 4 - 0	88
1	7 - 4 - 1	76
2	7 - 8 - 2	91
3	7 - 3	26
4	7 - 4	56
5	7 - 8 - 5	61
6	7 - 8 - 6	92
8	7 - 8	12
9	7 - 4 - 0 - 9	159

9:

Destination Path	Cost	
<hr/>		
0	8 - 2 - 0	62
1	8 - 2 - 0 - 4 - 1	102
2	8 - 2	38
3	8 - 7 - 3	61
4	8 - 2 - 0 - 4	82
5	8 - 5	23
6	8 - 6	45
7	8 - 7	10
9	8 - 6 - 9	115

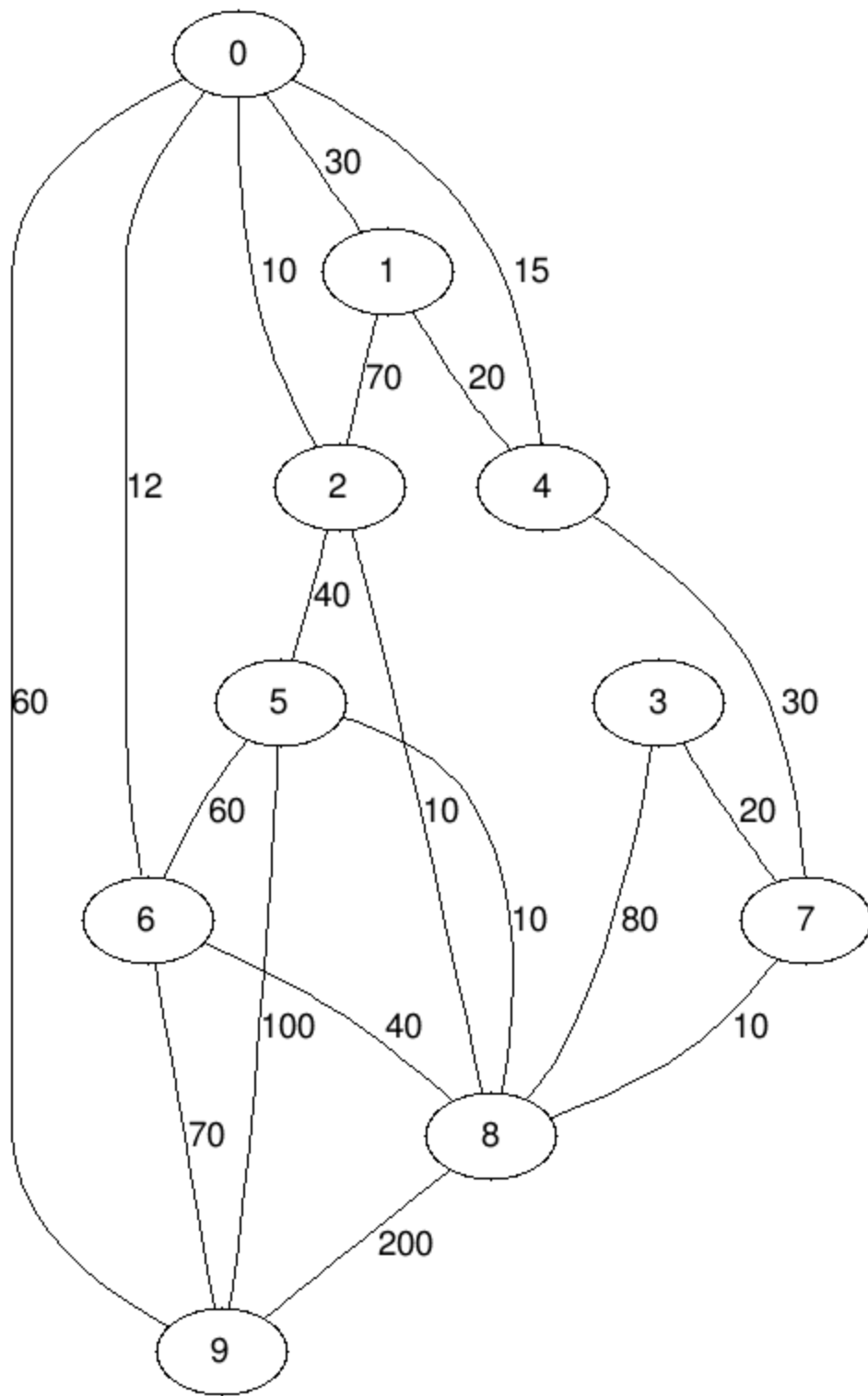
10:

Destination Path	Cost	
<hr/>		

0	9 - 0	68
1	9 - 0 - 1	112
2	9 - 0 - 2	92
3	9 - 0 - 2 - 8 - 7 - 3	184
4	9 - 0 - 4	100
5	9 - 5	126
6	9 - 6	76
7	9 - 0 - 2 - 8 - 7	120
8	9 - 0 - 2 - 8	110

Input # 2

10 20
 0 1 30 50
 0 2 10 24
 0 4 15 60
 0 6 12 80
 0 9 60 100
 1 2 70 200
 1 4 20 30
 2 5 40 90
 2 8 10 100
 3 7 20 90
 3 8 80 120
 4 7 30 310
 5 6 60 70
 5 8 10 70
 5 9 100 150
 6 8 40 90
 6 9 70 80
 7 8 10 20
 8 9 200 300



Routing Tables

1:

Destination	Path	Cost

1	0 - 1	46
2	0 - 2	23
3	0 - 2 - 8 - 3	138
4	0 - 4	31
5	0 - 6 - 5	83
6	0 - 6	23
7	0 - 2 - 8 - 7	76
8	0 - 2 - 8	56
9	0 - 9	73

2:

Destination	Path	Cost

0	1 - 0	46
2	1 - 0 - 2	70
3	1 - 0 - 2 - 8 - 3	185
4	1 - 4	30
5	1 - 0 - 6 - 5	125
6	1 - 0 - 6	65
7	1 - 0 - 2 - 8 - 7	123
8	1 - 0 - 2 - 8	103
9	1 - 0 - 9	119

3:

Destination	Path	Cost

0	2 - 0	24
1	2 - 0 - 1	70
3	2 - 8 - 7 - 3	109
4	2 - 0 - 4	55
5	2 - 5	89
6	2 - 0 - 6	43
7	2 - 8 - 7	43
8	2 - 8	33
9	2 - 0 - 9	97

4:

Destination	Path	Cost
0	3 - 8 - 2 - 0	119
1	3 - 8 - 2 - 0 - 1	165
2	3 - 8 - 2	95
4	3 - 8 - 2 - 0 - 4	150
5	3 - 8 - 5	141
6	3 - 8 - 2 - 0 - 6	142
7	3 - 7	66
8	3 - 8	82
9	3 - 8 - 2 - 0 - 9	192

5:

Destination	Path	Cost
0	4 - 0	31
1	4 - 1	30
2	4 - 0 - 2	55
3	4 - 0 - 2 - 8 - 3	170
5	4 - 0 - 6 - 5	114
6	4 - 0 - 6	54
7	4 - 0 - 2 - 8 - 7	108
8	4 - 0 - 2 - 8	88
9	4 - 0 - 9	104

6:

Destination	Path	Cost
0	5 - 6 - 0	79
1	5 - 6 - 0 - 1	125
2	5 - 2	89
3	5 - 8 - 7 - 3	135
4	5 - 6 - 0 - 4	110
6	5 - 6	60
7	5 - 8 - 7	69
8	5 - 8	59
9	5 - 9	117

7:

Destination	Path	Cost
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0	6 - 0	19
1	6 - 0 - 1	65
2	6 - 0 - 2	43
3	6 - 8 - 7 - 3	135
4	6 - 0 - 4	50
5	6 - 5	60
7	6 - 8 - 7	69
8	6 - 8	59
9	6 - 9	79

8:

Destination Path	Cost	

0	7 - 8 - 2 - 0	77
1	7 - 8 - 2 - 0 - 1	123
2	7 - 8 - 2	53
3	7 - 3	66
4	7 - 8 - 2 - 0 - 4	108
5	7 - 8 - 5	79
6	7 - 8 - 2 - 0 - 6	100
8	7 - 8	20
9	7 - 8 - 2 - 0 - 9	150

9:

Destination Path	Cost	

0	7 - 8 - 2 - 0	77
1	7 - 8 - 2 - 0 - 1	123
2	7 - 8 - 2	53
3	7 - 3	66
4	7 - 8 - 2 - 0 - 4	108
5	7 - 8 - 5	79
6	7 - 8 - 2 - 0 - 6	100
8	7 - 8	20
9	7 - 8 - 2 - 0 - 9	150

10:

Destination Path	Cost	

0	9 - 0	70
1	9 - 0 - 1	116

2	9 - 0 - 2	94
3	9 - 0 - 2 - 8 - 7 - 3	203
4	9 - 0 - 4	101
5	9 - 5	131
6	9 - 6	79
7	9 - 0 - 2 - 8 - 7	137
8	9 - 0 - 2 - 8	127