

Arc lengths

	1	2	3	4	5	6	7
1	1000	2	4	10	1000	1000	1000
2	1000	1000	1000	11	5	1000	1000
3	1000	1000	1000	3	1000	1	1000
4	1000	1000	1000	1000	8	7	1000
5	1000	1000	1000	1000	1000	1000	6
6	1000	1000	1000	1000	1000	1000	9
7	1000	1000	1000	1000	1000	1000	1000

Arc included in

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

1
1
0
0
1
0
0

length of th

ie shortest path connecting nodes 1 and 7