

Elena Slinko

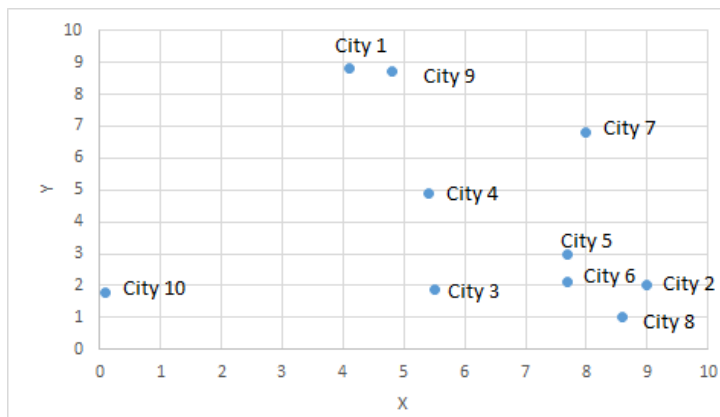
The 1st scenario (random coordinate):

The city:

Coordinate:

City1	4,1	8,8
City2	9	2
City3	5,5	1,9
City4	5,4	4,9
City5	7,7	3
City6	7,7	2,1
City7	8	6,8
City8	8,6	1
City9	4,8	8,7
City10	0,1	1,8

The map:

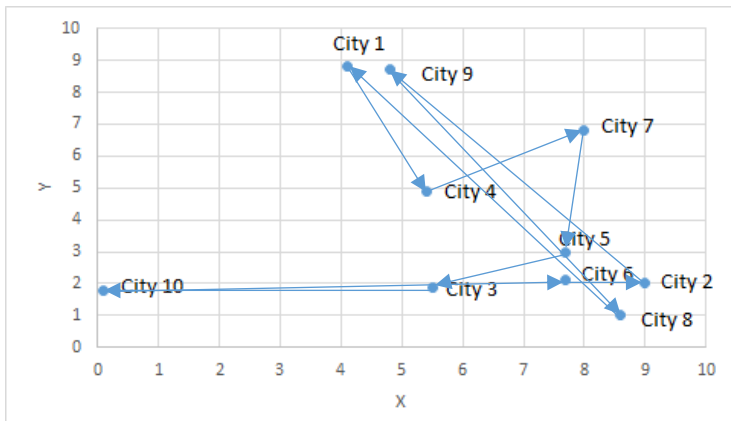


The matrix of distance:

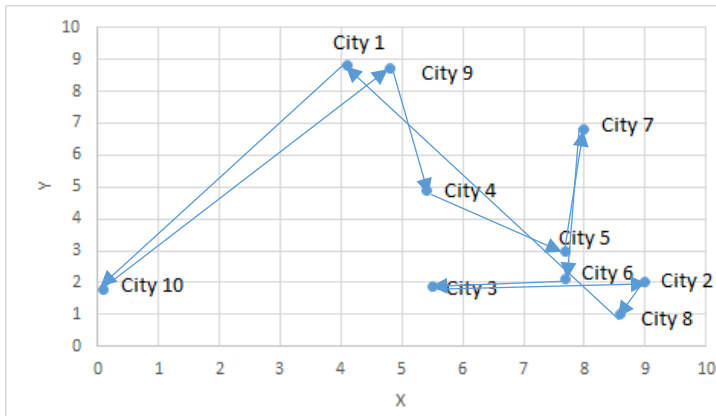
	City 1	City 2	City 3	City 4	City 5	City 6	City 7	City 8	City 9	City 10
City 1		8.4	7	4.1	6.8	7.6	4.4	9	0.7	8.1
City 2	8.4		3.5	4.6	1.6	1.3	4.9	1.1	7.9	8.9
City 3	7	3.5		3	2.5	2.2	5.5	3.2	6.8	5.4
City 4	4.1	4.6	3		3	3.6	3.2	5	3.8	6.1
City 5	6.8	1.6	2.5	3		0.9	3.8	2.2	6.4	7.7
City 6	7.6	1.6	2.2	3.6	0.9		4.7	1.4	7.2	7.6
City 7	4.4	4.9	5.5	3.2	3.8	4.7		5.8	3.7	9.3
City 8	9	1.1	3.2	5	2.2	1.4	5.8		8.6	8.5
City 9	0.7	7.9	6.8	3.8	6.4	7.2	3.7	8.6		8.3
City 10	8.1	8.9	5.4	6.1	7.7	7.6	9.3	8.5	8.3	

The first generation:

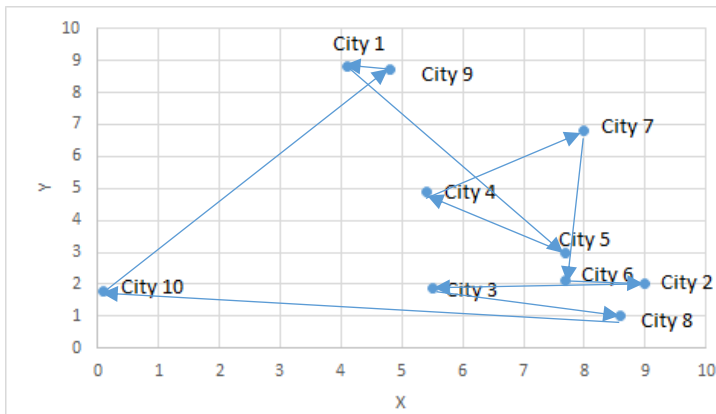
City1-City4-City7-City5-City3-City10-City6-City2-City9-City8-City1::: fitness:53.7



City1-City10-City9-City4-City5-City7-City6-City3-City2-City8-City1::: fitness:47.5

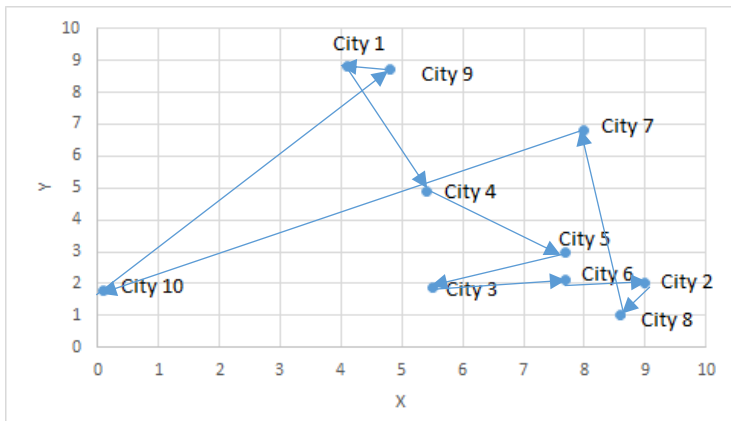


City1-City5-City4-City7-City6-City2-City3-City8-City10-City9-City1::: fitness:43.5

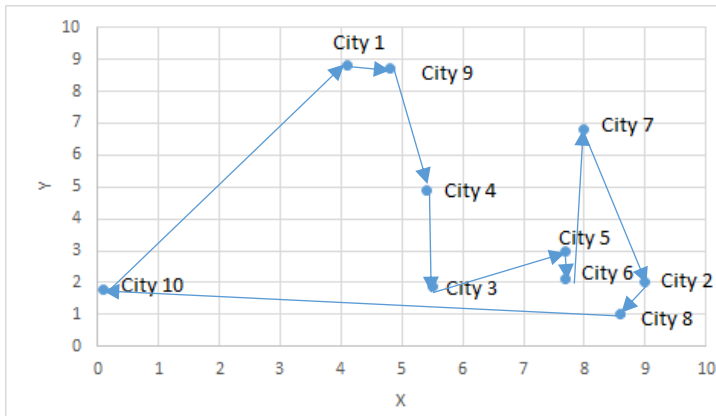


The intermediate generation:

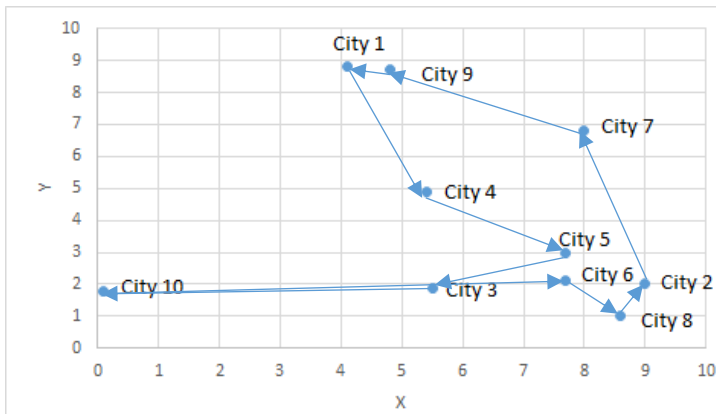
City1-City4-City5-City3-City6-City2-City8-City7-City10-City9-City1::: fitness:38.6



City1-City9-City4-City3-City5-City6-City7-City2-City8-City10-City1:..... fitness:38.2



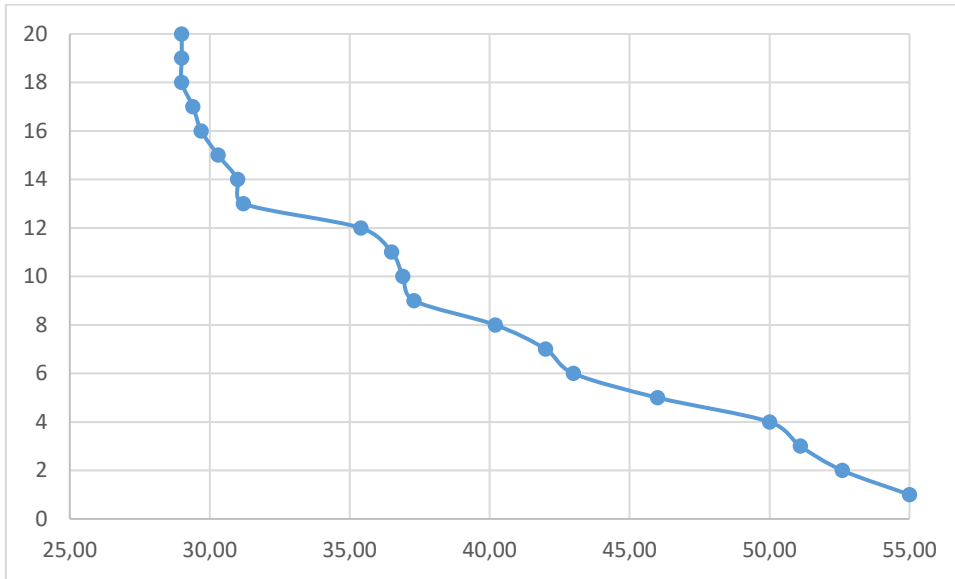
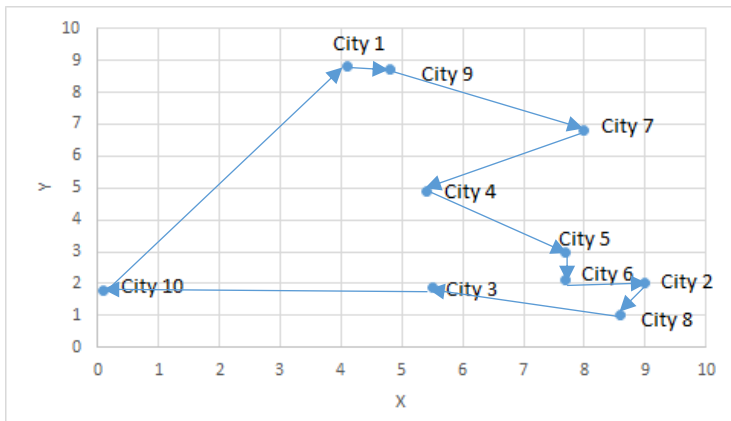
City1-City4-City5-City3-City10-City6-City8-City2-City7-City9-City1:..... fitness:34.4



The last generation:

The best path:

City1-City9-City7-City4-City5-City6-City2-City8-City3-City10-City1:..... fitness:30.9



The 2nd scenario (circle):

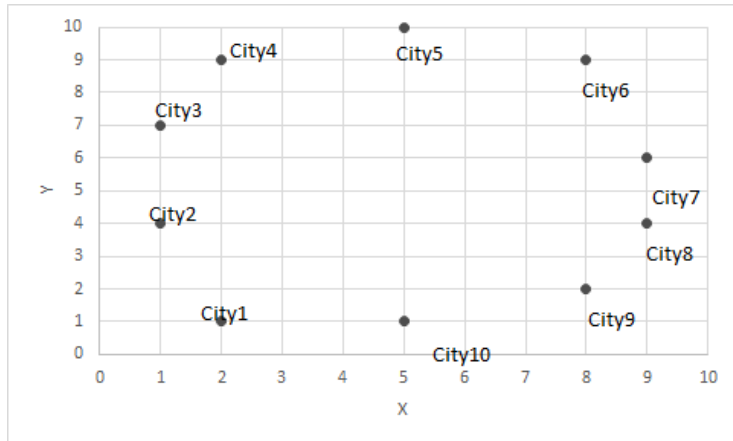
Coordinate:

City1	2	1
City2	1	4
City3	1	7
City4	2	9
City5	5	10
City6	8	9
City7	9	6
City8	9	4
City9	8	2
City10	5	1

The matrix of distance:

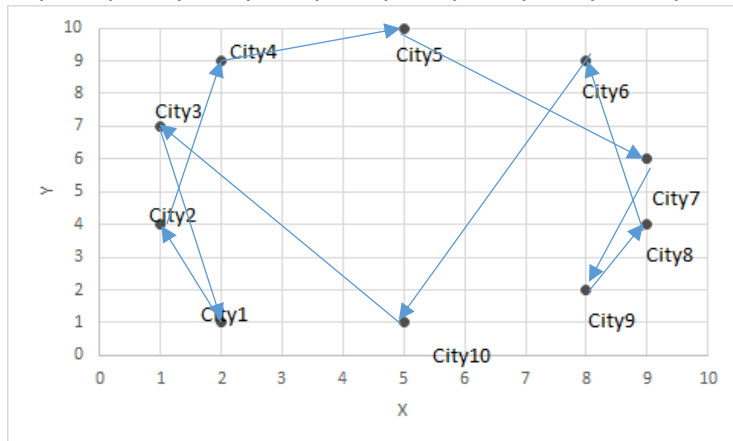
0	3,2	6,1	8	9,5	10	8,6	7,6	6,1	3
3,2	0	3	5,1	7,2	8,6	8,2	8	7,3	5
6,1	3	0	2,2	5	7,3	8,1	8,5	8,6	7,2
8	5,1	2,2	0	3,2	6	7,6	8,6	9,2	8,5
9,5	7,2	5	3,2	0	3,2	5,7	7,2	8,5	9
10	8,6	7,3	6	3,2	0	3,2	5,1	7	8,5
8,6	8,2	8,1	7,6	5,7	3,2	0	2	4,1	6,4
7,6	8	8,5	8,6	7,2	5,1	2	0	2,2	5
6,1	7,3	8,6	9,2	8,5	7	4,1	2,2	0	3,2
3	5	7,2	8,5	9	8,5	6,4	5	3,2	0

The map:



The first generation:

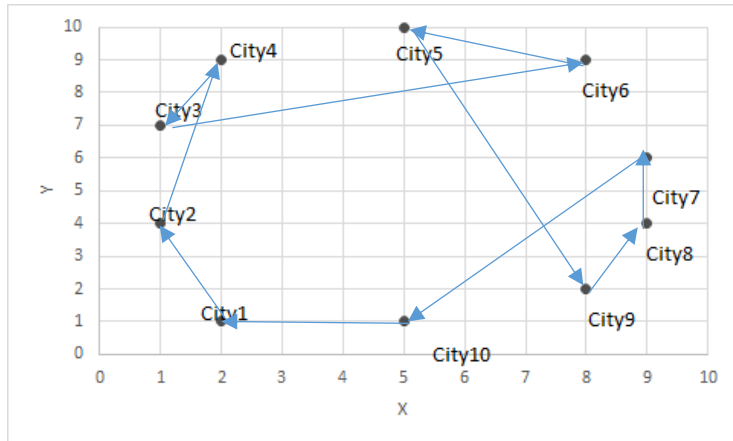
City1-City2-City4-City5-City7-City9-City8-City6-City10-City3-City1::: fitness:59.2



City1-City2-City5-City3-City6-City2-City8-City7-City10-City9-City1::: fitness:59.1

The intermidate:

City1-City2-City4-City3-City6-City5-City9-City8-City7-City10-City1::: fitness:49



City1-City4-City5-City3-City6-City2-City8-City7-City10-City9-City1::: fitness:44.2

The last generation :

The best path:

City1-City2-City3-City4-City5-City6-City7-City8-City9-City10-City1::: fitness:43

