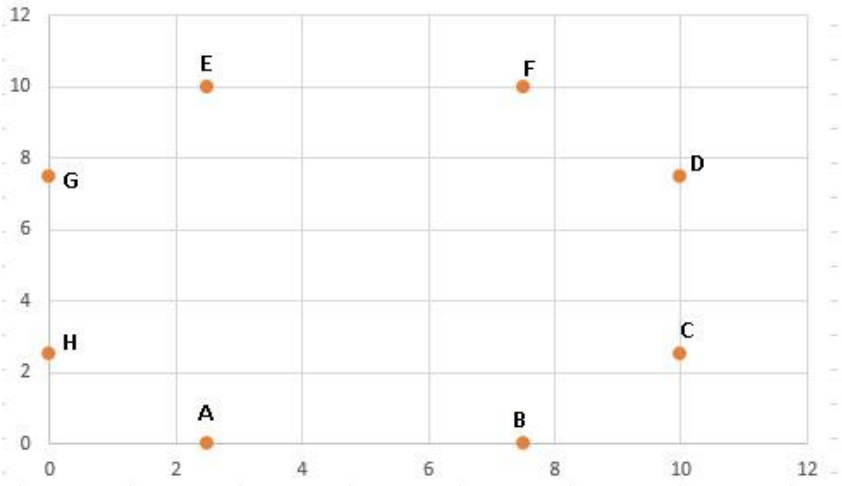


Cities:



Coordinates of cities:

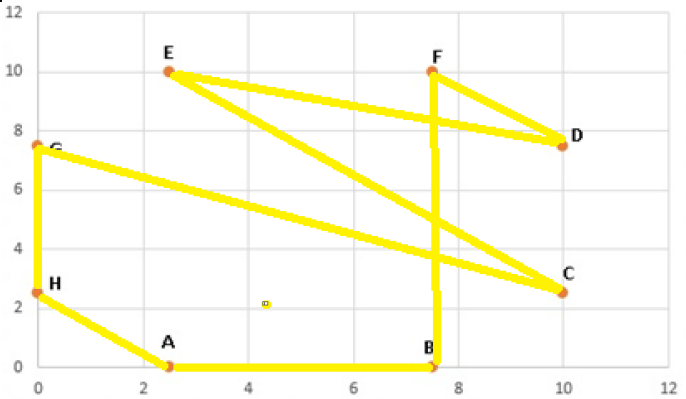
A	0	2,5
B	0	7,5
C	2,5	10
D	7,5	10
E	10	7,5
F	10	2,5
G	7,5	0
H	2,5	0

Matrix of distance:

Matrix	A	B	C	D	E	F	G	H
A	0	5	7,905	10,606	11,18	10	7,905	3,54
B	5	0	3,54	7,905	10	11,18	10,606	7,905
C	7,905	3,54	0	5	7,905	10,606	11,18	10
D	10,606	7,905	5	0	3,54	7,905	10	11,18
E	11,18	10	7,905	3,54	0	5	7,905	10,606
F	10	11,18	10,606	7,905	5	0	3,54	7,905
G	7,905	10,606	11,18	10	7,905	3,54	0	5
H	3,54	7,905	10	11,18	10,606	7,905	5	0

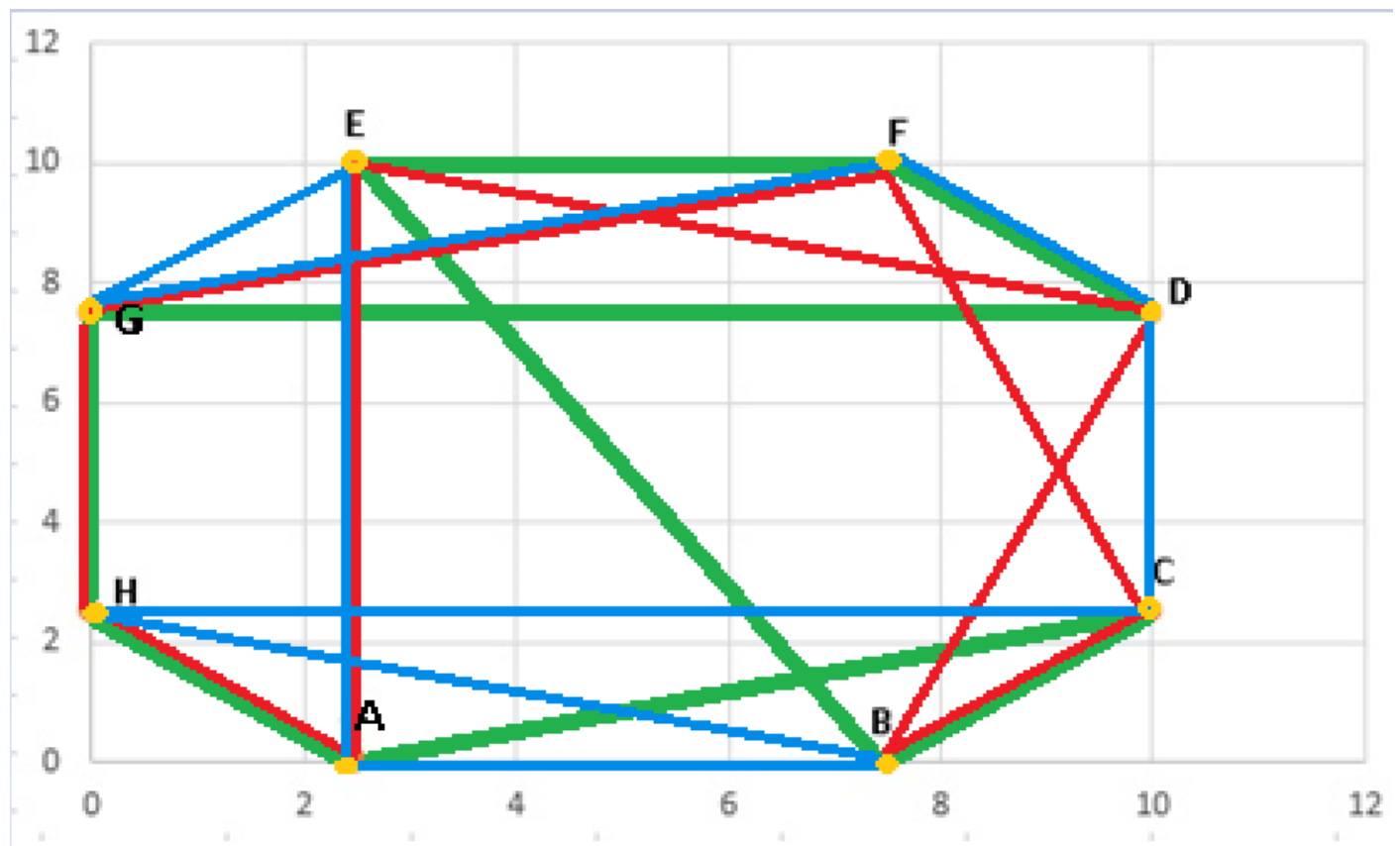
First random ways:

Way	Distance
A-H-G-B-F-C-E-D-A	62.9
A-H-E-C-B-G-F-D-A	58.23
A-E-B-H-D-G-F-C-A	72.31
A-E-G-B-C-F-D-H-A	66.45
A-D-B-F-H-E-G-C-A	75.19
A-B-E-F-D-H-C-G-A	68.17
A-H-G-C-E-D-F-B-A(yellow)	55.24
A-B-F-D-E-C-H-G-A	58.43
A-G-F-H-E-C-D-B-A	55.76
A-G-D-F-C-E-B-H-A	65.76



Intermediate ways:

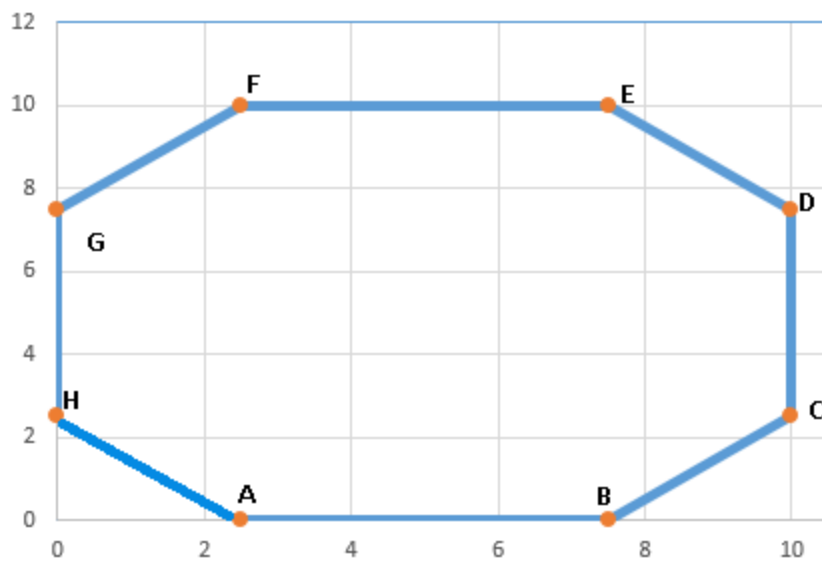
Way	Distance
A-D-B-E-H-C-F-G-A	71.16
A-B-H-C-D-F-G-E-A(blue)	58.43
A-G-D-F-E-H-B-C-A	60.76
A-C-B-E-F-D-G-H-A(green)	52.88
A-B-E-C-G-D-F-H-A	63.43
A-E-D-G-B-H-C-F-A	73.83
A-H-B-F-D-E-C-G-A	61.05
A-D-G-E-H-F-C-B-A	66.17
A-E-C-F-H-G-B-D-A	71.71
A-E-D-B-C-F-G-H-A(red)	48.83



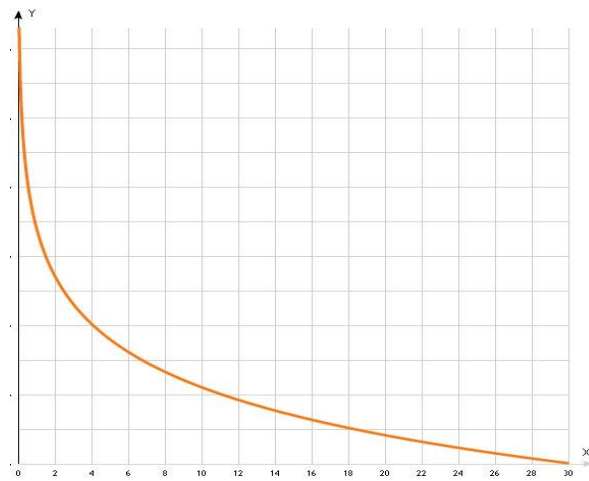
Best way:

A-B-C-D-E-F-G-H-A.

Distance = 34.14



Fitness&iteration:



X-iterations

Y-fitness