

Let us find the maximum value of function $f(x) = 15x - x^2$, where parameter x varies between 1 to 15. For simplicity, we may assume that x only takes integer value. Thus, table below shows the possible chromosomes that build with only four genes.

<i>Integer</i>	<i>Binary code</i>	<i>Integer</i>	<i>Binary code</i>	<i>Integer</i>	<i>Binary code</i>
1	0001	6	0110	11	1011
2	0010	7	0111	12	1100
3	0011	8	1000	13	1101
4	0100	9	1001	14	1110
5	0101	10	1010	15	1111

Travelling salesman problem (TSP) is a classic problem which you have to solve the shortest route in order the salesman visit each city. Below are the maps of the city which the salesman has to visit. Create 6 chromosomes to represent the route which the salesman has to travel and evaluate the fitness for each chromosome.

