

CIIT 2020 Examination-2 at BSTU

Remembering my lecture, decode the following chromosome
(2,1,3,3,1,8,4,6,3)

to the route of TSP of 10 cities starting with A! Explain also why.

In Sorting Network Problem of 8 alphabets, sorting result of a chromosome is **A B H G F E D C**. Estimate the fitness with the algorithm I gave you in my lecture! Explain also why.

In IPD, Player B has the following 64-bit binary chromosome

111101011010111000101100010100 1100101001001101010100111000101100.

Then the final action of B?

A: 110101101100

B: 11101001000?

Explain also why.

Using Fitness sharing algorithm with sigma = 5, calculate shared fitness of dog-A, assuming dogs start (500,500) and one sausage is located at (800,800). So the original fitness is **600 - {Manhattan-distance between the final location and nearest sausage}**. Explain also why.

