

IN3050/IN4050 Mandatory Assignment 1: Traveling Salesman Problem

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how to run program: `python3 assignment1.py` (se other deleveries)

In this exercise I have written code to find a path with exhaustive search, hill climbing and genetic algorithm.

I've managed the 2 first and come close on the last part

Exhaustive search:

time for best sequence: 7486.3099999999995

Barcelona to Belgrade to Berlin to Brussels to
Bucharest to Budapest to Copenhagen to Dublin to Hamburg to Istanbul

time: 57.579367876052856

Hill climb:

average: 12846.159790000007

Best 7549.160000000001

worst 16829.510000000002

standard deviation 1518.6809036812065

for 24 cities

average: 31498.149496999966

Best 22389.05

worst 38621.47

standard deviation 2263.5498773382324

GA:

I did not complete the GA algo, i failed at making a new population and parents