

Assignment 2

Published: 2018-09-25

Due: 2018-10-05

Write an evolutionary algorithm to solve the Eight Queen puzzle.

Task 1:

Initialization

Fitness evaluation

Mutation (swap two elements)

Crossover (cut and crossfill)

The provided python code files include:

main.py - The main program file which will be used to run your code

(2 mark) **initialization.py** - Complete this method that generates a population of permutations

(3 marks) **evaluation.py** - Complete this method that evaluates the fitness of a permutation

(2 mark) **mutation.py** - Complete this method that implements the swap mutation for a permutation

(3 marks) **recombination.py** - Complete this method that implements the *cut-and-crossfill* recombination for two chosen permutations

Please submit your completed **initialization.py**, **evaluation.py**, **mutation.py**, and **recombination.py**. Do not need to submit **main.py**.