

CS 441

Junyi Feng

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This program is implemented in python, to run this program just “python main.py” or open it on Pycharm.

The initial population will be auto generated as a list and the size must be even. The maximum number of iterations is 100,000. The initial mutation pct is 0.9 which means 10%. For each iteration, in order to select the parents, it has to compute the fitness values first. The way to calculate fitness values is to count how many clashes happen for each queen in one chromosome, then use 28 minus the number of clashes that would be the fitness value for the chromosome. Next, I calculate the average fitness value for plotting at the end and convert the fitness values to percentage so that larger values have a greater probability of being selected. I used “numpy.random.choice” to randomly select parents for crossover by the converted percentage(repeat parent available). The selected parents would temporarily be stored in a new list. For crossover, I randomly generated two values for the crossover interval. Each pair swaps their content between the crossover intervals. Last part is mutation, mutation might happen for each queen in a chromosome based on mutation pct. For getting a better offspring, higher mutation pct might perform better in low population size.

Population size = 10, mutationPct = 0.8(20%)

generation : 0

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generation : 500

[array([3, 0, 6, 5, 1, 2, 3, 0]), array([5, 6, 2, 4, 0, 2, 0, 3]), array([3, 0, 0, 3, 2, 5, 0, 2]), array([1, 6, 1, 4, 0, 2, 0, 3]),
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generation : 1000

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 array([2, 1, 6, 7, 5, 5, 0, 6]), array([5, 3, 6, 4, 5, 7, 1, 6])]

generation : 1500

[array([2, 4, 1, 2, 7, 4, 0, 3]), array([7, 1, 1, 2, 3, 3, 4, 7]), array([2, 1, 4, 4, 3, 4, 7, 3]), array([5, 4, 4, 0, 5, 0, 3, 3]),
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generation : 2000

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generation : 2500

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generation : 3000

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generation : 3500

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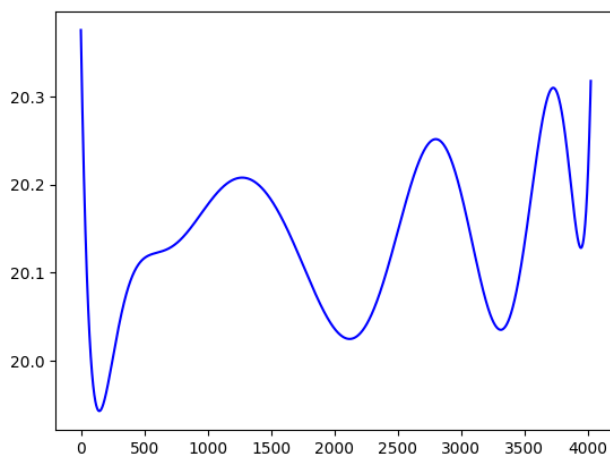
generation : 4000

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Find solution:

generation: 4023

[2 5 3 0 7 4 6 1]



Population size = 100, mutationPct = 0.9(10%)

generation : 0

```
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generation : 500

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generation : 1000

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generation : 1500

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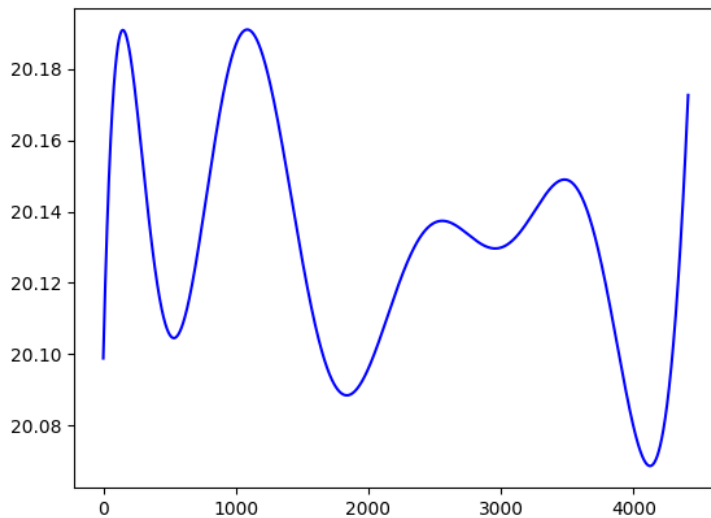
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Find solution:

generation: 4412

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Population size = 1000, mutationPct = 0.95(5%)

generation : 0

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generation: 96

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