

## Homework 4

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### Genetic Programming

Use genetic programming to find the symbolic formula ( $f$ ) that most accurately describes the given data. Each data (`data-gp1.txt`, `data-gp2.txt`) contains 200 xy coordinates, where

$$y = f(x) + \textit{noise}.$$

Restrictions on population size and generation include:

- Maximum Population Size = 500
- Maximum Generation = 500

Implement it yourself. Use of the GP library is not permitted.

Submit a zip file to the TA's email containing the following:

- Output: two symbolic formulas that most accurately describe each piece of data.
- Source code (Python, C, or C++) that reproduces the output.

The name of the zip file must include **your name** and **your student id**.

Due: 12/10 23:59

Email: [cheetos@gm.gist.ac.kr](mailto:cheetos@gm.gist.ac.kr)