

Assignment 5

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Due: 2018-11-16

Write Python code for the LGP algorithm that can

1. randomly generate a LGP individual with no more than [max_prog_length] instructions (4 marks);
2. remove structurally ineffective instructions of the LGP program (4 marks);
3. print the original and structural-intron-free LGP programs (2 marks).

Please find the A5.py file and fill the code.

This assignment helps students to learn the representation of the LGP algorithm. If a student is interested, feel free to explore more and write fitness evaluation, mutation, and recombination functions. Using the previous evolutionary algorithm developed for the 8-queen puzzle, it won't be too difficult to write a complete LGP algorithm.

Have fun!