Introduction to Program Synthesis - Exercise Sheet 4 Genetic Programming

Exercise 1: Subtree crossover and $(\mu + \lambda)$ Algorithm

Download the genetic programming example from the GitHub repository.

Implement the subtree crossover presented in Chapter 4.1 in the file operators.py. Use your implementation of the crossover then to implement the $(\mu + \lambda)$ evolutionary algorithm in file algorithms.py. For both implementations you can use the already implemented subtree mutation operator and $(1 + \lambda)$ algorithm as a template. Test your implementation on the provided benchmarks in the examples folder.