Lab 1

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1 Exercise 1.11 : MOSS

Investigate the techniques MOSS uses to find similarity. How does MOSS differ from other approaches for detecting possible plagiarism?

MOSS uses an array of pattern matching algorithms to detect similarities between many programs accurately by comparing each programs Tokens, essentially comparing it's 'base code'

2 Exercise 3.1 : Token Sequencing

What token sequence is produced? For which tokens must extra information be returned in addition to the token code?

Keyword, Identifier, Operator, Constant, Identifier, Identifier, Operator, Constant, Identifier, Operator, Constant, Keyword, Identifier, Operator, Constant, Keyword, String, Constant, Identifier, Identifier, Operator, Identifier, Operator, Identifier, Operator, Operator, Constant, Operator, Identifier, Identifier, Operator, Identifier, Operator, Constant

3 Exercise 1.1.4 : Advantages in C

A compiler that translates a high-level language into another high-level language is called a source-to-source translator. What advantages are there to using C as a target language for a compiler?

C is a very fast compiled language, so a compiler written in C could potentially be faster than most. C also gives programmers much more control over how memory is processed and stored, leading to potentially very efficient programs.

4 Exercise 1.6.1 : Variables in Block-Structured Code

Indicate the values assigned to w, x, y, and z. w = 13, x = 13, y = 15, z = 15.