

# Lab 1

## COMPILERS SPRING 2022

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### 1. Exercise 1.11 Crafting

MOSS uses a technique called document fingerprinting. Rather than comparing every sub string to every sub string, like other software's do, MOSS generates hashes and compares the similarity of those hashes.

### 2. Exercise 3.1 Crafting

```
<const> <float> <id, payment> <op, "="> <num, 384.00>
<float> <id, bal>
<int> <id, month> <op, "="> <num, 0>
<id, bal> <op, "="> <num, 15000> <while> <(> <id, bal> <op, ">"> <num, 0> <{>
<print> <%2d, "Month: "> <%10.2f, "Balance: "> <id, month> <id, bal>
<id, bal> <op, "="> <id, bal> <op, "+"> <num, 0.015> <op, "*"> <id, bal>
<id, month> <op, "="> <id, month> <op, "+"> <num, 1> <}>
```

### 3. Exercise 1.1.4 Dragon

What are the advantages of using C as a target language?

One of the advantages is that C is an easy to generate language. Since the target language is ultimately what is going to be used to generate machine code this is important.

### 4. Exercise 1.6.1 Dragon

```
w = 13
x = 9
y = 13
z = 9
```