

# Grammar for the Exp programming language

Version 1

program  $\rightarrow$  main

main  $\rightarrow$  ( statement )<sup>+</sup>

statement  $\rightarrow$  st\_print

st\_print  $\rightarrow$  **print** ( expression )

expression  $\rightarrow$  term ( ( + | - ) term )<sup>\*</sup>

term  $\rightarrow$  factor ( ( \* | / | % ) factor )<sup>\*</sup>

factor  $\rightarrow$  **number** | ( expression )

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tokens: + - \* / % ( ) **print** **number**

bytecode instructions:

**ldc** *value*

**iadd**

**isub**

**imul**

**idiv**

**irem**