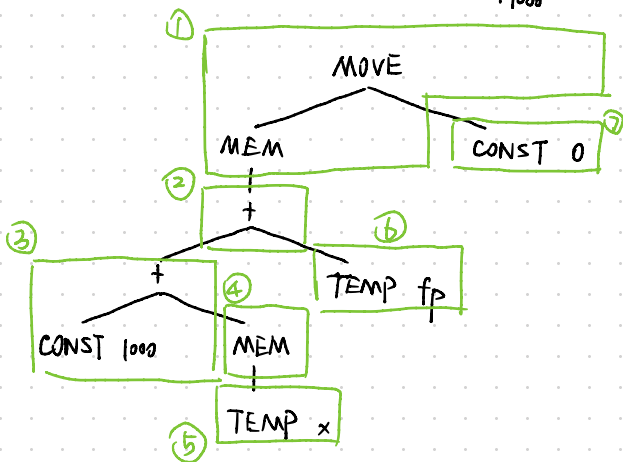


# Homework 9

9.1

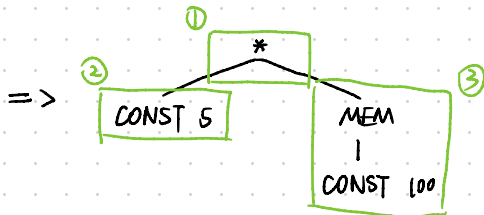
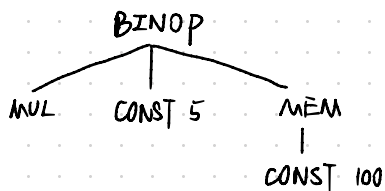
a.  $\text{MOVE}(\text{MEM}(\text{+}(\text{+}(\text{CONST}_{1000}, \text{MEM}(\text{TEMP}_x)), \text{TEMP}_{fp})), \text{CONST}_0)$



生成的指令序列为:

- ① ADDI  $r_1 \leftarrow r_0 + 4$
- ② LOAD  $r_2 \leftarrow M[x]$
- ③ ADDI  $r_3 \leftarrow r_2 + 1000$
- ④ ADD  $r_4 \leftarrow r_3 + fp$
- ⑤ STORE  $M[r_4 + 0] \leftarrow 0$

b.  $\text{BINOP}(\text{MUL}, \text{CONST}_5, \text{MEM}(\text{CONST}_{100}))$



生成的指令序列为:

- ① LOAD  $r_1 \leftarrow M[100]$
- ② ADDI  $r_2 \leftarrow r_0 + 5$
- ③ MUL  $r_3 \leftarrow r_2 \times r_1$