5.

START: LOAD 0
LOOP: OUT 0x8
ADD 1
JZ DONE
JMP LOOP

DONE: HLT

6.

7.

START: IN 0x100 STORE A IN 0x100 STORE B

COMPARE: LOAD A
SUB B
JZ DONE

JZ DONE JN A_LESS_B

A_MORE_B: LOAD A
SUB B
STORE A

JMP COMPARE

A_LESS_B: LOAD B

SUB A STORE B

JMP COMPARE

DONE: LOAD A
OUT 0x200

HLT

I IL

A: 0 B: 0