ORG 0x049

X: WORD 0x019

SAVED\_A: WORD 0x0000

LEFT: WORD 0xFFE8

RIGHT: WORD 0x001A

ORG 0x000

V0: WORD $DEFAULT,0x180

V1: WORD $INT1,0x180

V2: WORD $DEFAULT,0x180

V3: WORD $INT3,0x180

V4: WORD $DEFAULT,0x180

V5: WORD $DEFAULT,0x180

V6: WORD $DEFAULT,0x180

V7: WORD $DEFAULT,0x180

DEFAULT: IRET

START: DI

CLA

OUT 0x05

OUT 0x0B

OUT 0x0D

OUT 0x11

OUT 0x15

OUT 0x19

OUT 0x1D

LD #9

OUT 3

LD #0xB

OUT 7

JUMP $PROG

PROG:EI

CLA

SPINLOOP: EI

LD $X

DI

DEC

CMP $LEFT

BLT MIN

CMP $RIGHT

BGE MIN

ST $X

JUMP SPINLOOP

MIN: LD $LEFT

ST $X

JUMP SPINLOOP

INT1: DI

LD $X

ASL

ASL

ADD $X

NEG

ADD #0x0005

OUT 2

NOP

IRET

INT3: DI

CLA

IN 6

ST $SAVED\_A

CMP $LEFT

BLT MINN

CMP $RIGHT

BGE MINN

ST $X

NOP

IRET

MINN: LD $LEFT

ST $X

NOP

IRET