ORG 000

RET: WORD ?

NOP

BR INT

ORG 020

BEGIN: EI

CLA

LOOP: INC

NOP

BR LOOP

IO3: WORD ?

ORG 030

SAVED\_A: WORD ?

SAVED\_C: WORD ?

INT: MOV SAVED\_A

ROL

MOV SAVED\_C

TSF 3

BR CHECK1

BR READY3

CHECK1: TSF 1

BR READY2

BR READY1

READY3: CLA

IN 3

CLF 3

MOV IO3

BR RESTORE

READY1: CLA

ADD SAVED\_A

CLC

ROL

OUT 1

NOP

CLF 1

BR RESTORE

READY2: CLF 2

RESTORE: CLA

ADD SAVED\_C

ROR

CLA

CMA

AND SAVED\_A

EI

BR (RET)