.ORIG x3000

INPUT LDI R1, KBSR

BRzp INPUT

LDI R0, KBDR

ECHO LDI R1, DSR

BRzp ECHO

STI R0, DDR

JSR ISALPHA

HALT

ISALPHA ST R1, SaveR1

ST R2, SaveR2

LD R1, upperS

ADD R2, R0, R1

BRn FAIL

LD R1, upperE

ADD R2, R0, R1

BRp Check2

AND R0, R0, #0

ADD R0, R0, #1

RET

Check2 LD R1, lowerS

ADD R2, R0, R1

BRn FAIL

LD R1, lowerE

ADD R2, R0, R1

BRp FAIL

AND R0, R0, #0

ADD R0, R0, #1

LD R1, SaveR1

LD R2, SaveR2

RET

FAIL AND R0, R0, #0

LD R1, SaveR1

LD R2, SaveR2

RET

KBSR .FILL xFE00

KBDR .FILL xFE02

DSR .FILL xFE04

DDR .FILL xFE06

upperS .FILL #-65

upperE .FILL #-90

lowerS .FILL #-97

lowerE .FILL #-122

SaveR1 .BLKW 1

SaveR2 .BLKW 1

.END