# 冒泡排序

.include "beta.uasm"

BR(STEP0) // start execution with Step 0

// the array to be sorted

A: LONG(10) LONG(56) LONG(27) LONG(69) LONG(73) LONG(99)

LONG(44) LONG(36) LONG(10) LONG(72) LONG(71) LONG(1)

ALEN = (. - A)/4 // determine number of elements in A

// Please enter your code for each of the steps below...

STEP0: CMOVE(ALEN,R7)

STEP1:

CMOVE(0,R1)//swapped

STEP2:

CMOVE(0,R2)//i

STEP3:

ADDC(R2,1,R2)

CMPLT(R2,R7,R3)

BF(R3,STEP5)

STEP4:

MULC(R2,4,R3)

LD(R3,A-4,R4)

LD(R3,A,R5)

CMPLE(R4,R5,R6)

BT(R6,STEP3)

ST(R4,A,R3)

ST(R5,A-4,R3)

CMOVE(1,R1)

BR(STEP3)

STEP5:

BT(R1,STEP1)

// When step 5 is complete, execution continues with the

// checkoff code. You must include this code in order to

// receive credit for completing the problem.

.include "checkoff.uasm"