NAME main

PUBLIC \_\_iar\_program\_start

SECTION .data:CONST:NOROOT (2)

mydata:

DC32 0X99999999,0X33333333,0X44444444,0XAAAAAAAA,0XFFFFFFFF

mydataend:

DC32 0x00

length:

DC32 (mydataend-mydata)/4

SECTION .intvec:CODE:NOROOT (2)

\_\_iar\_program\_start

MAIN

LDR R0,length

SUB R0,R0,#1

MOV R5,R0

LDR R1,=mydata

LOOP2 MOV R0,R5

MOV R2,R1

ADD R2,R2,#4

L1 LDR R3,[R1]

LDR R4,[R2]

CMP R3,R4

BLO LOOP1 **(BHS-DESCENDING)**

SWP R3,R4,[R1]

STR R3,[R2]

LOOP1 ADD R2,R2,#4

SUBS R0,R0,#1

BHI L1

ADD R1,R1,#4

SUBS R5,R5,#1

BGT LOOP2

stop B stop

END