```
ar: .word -1, -10, 482, -280, 41, 60, -11, -20, 211, 120
.word 14, 70, 91, 409, 21, 40, 81, 90, 901, 110
.word 1, 10, 11, 10, 11, 10, 111, 110, 11, 1230
.word 13, 120, 321, -40, -61, 550, 411, -340, 13, 50
.word 14, 50, 41, -560, 300, -200, 1, 0, 1, 40
#$8 -- a flag, 1 if the algorithm is done
#$9 -- an offset to the correct element of the array
# $10 -- address of the element to compare
# $11 -- the array element for comparison
#$12 -- the neighbor of the array element for comparison
#$14 -- base address of array ar
.text
.globl main
main: la $14, ar
loop: li \$8, 1 \# flag = true
li $9, 0
for: add $10, $14, $9
 lw $11, ($10) # load element
 lw $12, 4($10) # load next element
 sub $13, $11, $12
 blez $13, noswap # if they are in order, don't swap
 li $8, 0
 sw $11, 4($10) # swap elements
 sw $12, ($10)
noswap: add $9, $9, 4
 sub $13, $9, 196 # see if end of the array reached
bltz $13,for
beg $8, $0, loop # loop until done
li $v0, 10
syscall
```