```
           addi $s1, $s0, -1      # j = i - 1
for2tst:slti $t0, $s1, 0          # reg $t0 = 1 if $s1 < 0 (j < 0)
           bne $t0, $zero, exit2 # go to exit2 if $s1 < 0 (j < 0)
           sll $t1, $s1, 2        # reg $t1 = j * 4
           add $t2, $a0, $t1      # reg $t2 = v + (j * 4)
           lw  $t3, 0($t2)        # reg $t3 = v[j]
           lw  $t4, 4($t2)        # reg $t4 = v[j + 1]
           slt $t0, $t4, $t3      # reg $t0 = 0 if $t4 ≥ $t3
           beq $t0, $zero, exit2 # go to exit2 if $t4 ≥ $t3
               . . .
           (body of second for loop)
               . . .
           addi $s1, $s1, -1      # j -= 1
           j  for2tst             # jump to test of inner loop
exit2:
```

Unn Fig. 2-46.