```
f, g, h, î, j
                                       AB
         $50, $51, $50, $55, $54
                                      $56, $57
                           # $to = f × 4
                                                               C code
         SII $10, $50, 2
                           # $to = & A[f]
         add $to, $56,$to
                                                          B[g] = A[f+i] + A[f]
                           # $ 61 = 9×4
         all $t1, $31,2
                           # $t1 = $ B[g]
         add $4, $57,$t1
                         L974 - 7 #
              $50,0($40)
                         # $42 = & A [f+1]
         add: $te, $to, 4
             $40,0($t2) #$40 = A[f+1]
         add $ to, $ to, $ 50 # $ to = A[f+1]+f
         80 $to, 0 ($t1)
                            [1] + [+] A = [e] B #
          To calculate A [fir] we don't need to add 4 to $to get address instead it can be done as follows
a·5
                             # $to = f × 4
            31 $40, $50, 2
           add $40, $56. $40 # $40 = & A[f]
                            # $ ti = 9 x 4
            ell $t1, $31,2
           add $t1, $57, $t1 # $t1 = $ B[g]
                            # f = ACPJ
                              # $ 10 = 4 (fill) Can be replaced by [w $to, 4 ($to)]
               $50,0($to)
            adai 449, 449, 4/ # $42= 4 4 [f+7]
           16 ($ to , 6 ($ t 2)
            add $ to, $ to, $ 50 # $ to = A [f+i] + f
            8w $to, 0 ($t1)
                             # B[a] = A[f+i] + ^[t]
2.6) int n = size of (Array)/size of (Array [0]);
           for ( int c=0; c<n-1; < c++ ) }
                  for (int d=0; d < n-c-1; d++) {
                          if ( Array [d] > Array [d+1]) &
                                 int swap = Array [d];
                                 Array [d] = Array [d+i];
                                 Array [ati] = swap;
                          Z
                  3
```

main:

la \$t0, 24 #base address of Array into \$t1 add \$t0, \$t0, 20 # 4 bytes per int * 10 ints = 20 bytes

add \$t1, \$0, \$0 # \$t1 holds a flag to determine when the list is sorted

la \$a0, 24 # Set \$a0 to the base address of the Array

Loop2:

Loop1:

lw \$t2, 0(\$a0) # sets \$t0 to the current element in array

lw \$t3, 4(\$a0) # sets \$t1 to the next element in array

slt \$t5, \$t2, \$t3 # \$t5 = 1 if \$t0 < \$t1

beq \$t5, \$0, CONTINUE # if \$t5 = 1, then swap them

add \$t1, \$0, 1 # if we need to swap, we need to check the list again

sw \$t2, 4(\$a0) # store the greater number in the higher position in array (swap)

sw \$t3, 0(\$a0) # store the lesser number in the lower position in array (swap)

CONTINUE:

addi \$a0, \$a0, 4 # advance the array to start at the next location from last time

bne \$a0, \$t0, Loop2 # If \$a0 != the end of Array, jump back to Loop2

bne \$t1, \$0, Loop1 # \$t1 = 1, another pass is needed, jump back to Loop1