

Insertion sort

for $i = 1$ to $n-1$

$j = i$

while $j > 0$ and $A[j] < A[j-1]$

swap($A[j]$, $A[j-1]$)

$j = j - 1$

What registers need to be used?

$\$t0$: base address of values

$\$t1$: length-1

$\$t2$: i

$\$t3$: j

$\$t4$: address of $A[j]$

$\$t5$: value of $A[j]$

$\$t6$: address of $A[j-1]$

$\$t7$: value of $A[j-1]$

also: $\$t8: j-1$

