
Test Program:

By the execution of this test program you should see '\$6' as 10 in the 5th cycle (starting from cycle number 1). and \$1 to be equal to 34 in cycle 14.

Initialize

\$1 = 0

\$2 = 12th memory location (word boundary) = 17 (recall that code has zero indexing)

\$3 = 14th memory location (word boundary) = 17 (recall that code has zero indexing)

\$4 = 2

\$5 = 6

\$6 = 1

\$7 = 0

add \$7, \$4, \$5

add \$6, \$7, \$4

noop

noop

noop

noop

noop

lw \$2, 12(\$0)

lw \$3, 14(\$0)

add \$1, \$2, \$3

noop

noop

noop

noop

noop

add \$2, \$0, \$0

add \$3, \$0, \$0

add \$1, \$2, \$3

noop

noop

noop

noop

noop