

Binary Search (A, size, target)

low = 0

high = size

while (low + 1 < high)

test = (low + high) // 2

if (A[test] > target)

high = test

else

low = test

if (A[low] == target)

return low

else

return -1

Register usage:

\$t0: Base address of A

\$t1: Length of A

\$t2: low

\$t3: low + 1

also: \$t7: target

\$t4: high

\$t5: test

\$t6: Value of A(x); address of A

