Algorithm Binary Decrease Search

Input: Array of integers a with size n in ascending order, integer k

Output: Found index i of key k in array a, otherwise, return -1

low <- 0

high <- n – 1

while low <- high do

middle = low + (high - low) / 2;

if a[middle] = k then

return middle

else

if a[middle] < k then

high = middle – 1

else

low = middle + 1

end if

end if

end while

return -1