B. Linear Search

In this assignment you are requested to linear search algorithm for finding an item in an array:

Require: a: array of elements, of type T
Require: a_s: element to find, of type T
1: $N \leftarrow length(a)$
2: **for** $i \leftarrow$ 1 to N **do**
3: **if** $a_i = a_s$ **then**
4: **return** i
5: **end if**
6: **end for**
7: **return** -1

Input structure The sequences and the element to search are integers (i.e. you can safely store them into `int` variables). Each case starts with a number which is the number of integers in the sequence. The following number is the element to search (a_s). Then the elements of the sequence follow, one per line.

Output structure Algorithm must return -1 if a_s is not in the sequence, or its position (i.e. array index) if it is contained. You can assume that all the numbers in the sequence are distinct.