

The longest ascending subsequence

Cost: 10 | Solved: 20

Memory limit: 256 MBs

Time limit: 1 s

Input: input.txt

Output: output.txt

Task:

You are given a sequence of n numbers. Find its longest ascending subsequence (which means that every next element of the subsequence is greater than a previous element). Elements are not strictly supposed to be adjacent.

Input:

The first line contains a natural n – the quantity of elements, then n elements on the next line.

Output:

The length of the longest ascending subsequence. If such subsequence doesn't exist, write -1.

Example:

Input	Output S
9 263412958	5
5 5 4 3 2 1	-1 -1

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(The longest ascending subsequence in the first example is 2 3 4 5 8)