



Jumps

Java May'19 DSA Linear 1 - 1 day 19:28:18

Given a sequence of elements(numbers), calculate the longest possible sequence of 'jumps' from each number.

Each 'jump' must be made according to the following rules:

- You can only 'jump' on a number that is greater than the current one;
- You can 'jump' on a number, only if there isn't one with a greater value between;
- You can 'jump' only from left to right;

Input

Read from the standard input

- On the first line, you will find the number
 - The number of elements
- On the second line you will find numbers, separated by a space
 - The elements themselves

The input will be correct and in the described format, so there is no need to check it explicitly.

Output

Print to the standard output

- On the first line, print the length of the longest sequence of jumps
- On the second line, print the lengths of the sequences, starting from each element

Constraints

- The will always be less than 103344

Sample Tests

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✓ **Points:** 100
(partial)
⌚ **Time limit:** 0.2s
Java: 1.0s
📄 **Memory limit:**
64M
Java: 32M
✍ **Author:**
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🏷 **Tags**
Linear Data
Structures
⬆ **Difficulty**
Intermediate

▼ **Allowed languages**
java



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```
6
1 4 2 6 3 4
```

Output

```
2
2 1 1 0 1 0
```

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Explanation

- Element 1:
 - 1 -> 4 -> 6 (2 jumps)
- Element 2:
 - 4 -> 6 (1 jump)
- Element 3:
 - 2 -> 6 (1 jump)
- Element 4:
 - 6 (0 jumps)
- Element 5:
 - 3 -> 4 (1 jump)
- Element 6:
 - 4 -> (0 jumps)

Input

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Output

```
0
0 0 0 0 0
```

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? Clarifications

No clarifications have been made at this time.