1629. Slowest Key

Easy 347 63 Add to List Share

A newly designed keypad was tested, where a tester pressed a sequence of `n` keys, one at a time.

You are given a string `keysPressed` of length `n`, where `keysPressed[i]` was the `i^th` key pressed in the testing sequence, and a sorted list `releaseTimes`, where `releaseTimes[i]` was the time the `i^th` key was released. Both arrays are **0-indexed**. The `0^th` key was pressed at the time `0`, and every subsequent key was pressed at the **exact** time the previous key was released.

The tester wants to know the key of the keypress that had the **longest duration**. The `i^th` keypress had a **duration** of `releaseTimes[i] - releaseTimes[i - 1]`, and the `0^th` keypress had a duration of `releaseTimes[0]`.

Note that the same key could have been pressed multiple times during the test, and these multiple presses of the same key **may not** have had the same **duration**.

*Return the key of the keypress that had the **longest duration**. If there are multiple such keypresses, return the lexicographically largest key of the keypresses.*

Example 1:

```
Input: releaseTimes = [9,29,49,50], keysPressed = "cbcd"
Output: "c"
Explanation: The keypresses were as follows:
Keypress for 'c' had a duration of 9 (pressed at time 0
and released at time 9).
Keypress for 'b' had a duration of 29 - 9 = 20 (pressed
at time 9 right after the release of the previous
character and released at time 29).
Keypress for 'c' had a duration of 49 - 29 = 20 (pressed
at time 29 right after the release of the previous
character and released at time 49).
Keypress for 'd' had a duration of 50 - 49 = 1 (pressed
at time 49 right after the release of the previous
character and released at time 50).
```

```
1 ▾ func slowestK
    []int, keysPr
2       maxT, max
    keysPressed[0
3 ▾     for i, t
    {
4 ▾         if i
5               c
6           }
7 ▾         if t
    maxT {
8               m
    releaseTimes[
9               m
10
11 ▾        } els
    releaseTimes[
    keysPressed[i
12
    keysPressed[i
13          }
14      }
15      return ma
16  }
```