RECENT SUBMISSIONS

RESULT

A

DEVELOPERS

Learn to Code

Learn to Code

Learn to Code

Learn to Code

Wang Jun Jie

Inck Wildor

FFYYTT

LANGUAGE

Python 3.8

Python 3.8

Python 3.8

Python 3

Python 3

View All

Python

C

INSTRUCTIONS

- Problems / Highest Mountain

COMPETE

Jul 25, 2020, 02:00 PM CST - Jul 25, 2020, 05:15 PM CST

SUBMISSIONS

COMPANIES

LEADERBOARD

Highest Mountain Max. score: 10

PROBLEMS

This problem is no longer available for practice. Apology for any inconvenience!

Victor is assigned a task for planning quarterly team outings in Shopee. He is trying to organize an outdoor activity to climb the highest mountain among a mountain range. However, it is difficult to tell which mountain is the highest in the mountain range from a distance. Help Victor to identify the highest mountain given the height of the mountains.

ANALYTICS

JUDGE

In order to climb a mountain, the mountain needs to either increase or decrease consistently by 1 and has at least one side to be able to be seen connected to the ground. Given that 1 is ground level, "2324" is not a valid mountain to be climbed, while "1234" and "4321" are valid mountains with height of 4.

Find the height of the highest climbable mountain.

Input

The first line will specify the N number of mountain ranges

Subsequent N sets will have length L and a series of numbers separated by space representing the height (H)

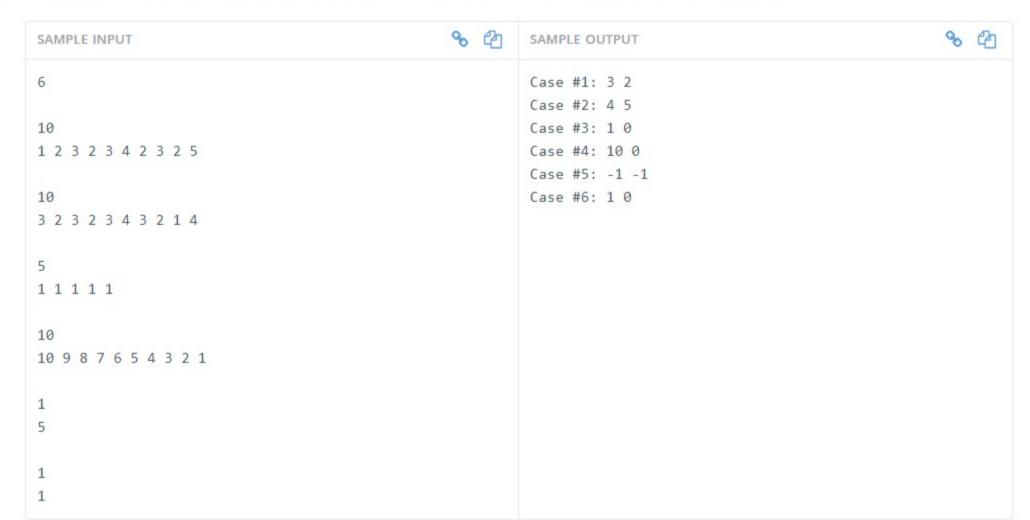
Height: 1 <= H <= 1000

Length: 1 <= L <= 1000

Output

Integer specifying the height (H) of the highest mountain and index (I) of the peak. If there are multiple mountains with the same height, return the leftmost mountain.

If the height or index is not available, return -1. Return the result for each case with format "Case #{N}: H I"



Explanation

1232342325

3 has a way to enter from the ground while 4 and 5 doesn't.

The highest mountain will be "1 2 3" with the height of 3 because a mountain can only be either increase or decrease consistently by 1 and not both. When it increase from 1 to 3, it cannot decrease to 2 again.

3 2 3 2 3 <u>4 3 2 1</u> 4

4 has a way to enter from the ground and it is decreasing consistently by 1.

Swift-4.1, Swift, TypeScript, Visual Basic

23456

1245

The mountain is unable to jump from 2 to 4.

There is no way to enter from the ground.

Time Limit:	1.0 sec(s) for each input file.
Memory Limit:	64 MB
Source Limit:	1024 KB
Marking Scheme:	Score is assigned when all the testcases pass.
Allowed Languages:	Bash, C, C++, C++14, C++17, Clojure, C#, D, Erlang, F#, Go, Groovy, Haskell, Java, Java 8, Java 14, JavaScript(Rhino), JavaScript(Node.js), Julia,
	Kotlin, Lisp, Lisp (SBCL), Lua, Objective-C, OCaml, Octave, Pascal, Perl, PHP, Python, Python 3, Python 3.8, R(RScript), Racket, Ruby, Rust, Scala,

CODE EDITOR

```
Save Python 3.8 (python 3.8.2)
         def rec(lst, looking_for = 1, index = 0, curr_max = -1, max_index = -1):
              if index == len(lst):
                  return curr_max, max_index
             height = lst[index]
              if height == looking_for:
                  if height > curr_max:
                      return rec(lst, looking_for + 1, index + 1, height, index)
11
                      return rec(lst, looking_for + 1, index + 1, curr_max, max_index)
12
             else:
                  return rec(lst, 1, index + 1, curr_max, max_index)
        N = int(input())
         for i in range(N):
17
             input()
             L = int(input())
             mountain_heights = [int(j) for j in input().split()]
             rev_mountain_heights = mountain_heights.copy()
21
             rev_mountain_heights.reverse()
             max_height, max_index = rec(mountain_heights.copy())
24
             rev_max_height, rev_max_index = rec(rev_mountain_heights.copy())
              if rev_max_height > max_height:
                                                                                                               1:1 vscode
```

▼ Provide custom input

COMPILE & TEST

SUBMIT

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