Stack

Run Submit

Description | Accepted | Editorial | Submissions | Solutions

1762. Buildings With an Ocean View

Premium

Solved

Medium | Topics | Companies | Hint

There are `n` buildings in a line. You are given an integer array `heights` of size `n` that represents the heights of the buildings in the line.

The ocean is to the right of the buildings. A building has an ocean view if the building can see the ocean without obstructions. Formally, a building has an ocean view if all the buildings to its right have a **smaller** height.

Return a list of indices **(0-indexed)** of buildings that have an ocean view, sorted in increasing order.

Example 1:

> **Input:** heights = [4,2,3,1]
> **Output:** [0,2,3]
> **Explanation:** Building 1 (0-indexed) does not have an ocean view because building 2 is taller.

Example 2:

> **Input:** heights = [4,3,2,1]
> **Output:** [0,1,2,3]
> **Explanation:** All the buildings have an ocean view.

Example 3:

> **Input:** heights = [1,3,2,4]
> **Output:** [3]
> **Explanation:** Only building 3 has an ocean view.

Constraints:

- `1 <= heights.length <= 10^5`
- `1 <= heights[i] <= 10^9`

Seen this question in a real interview before? 1/5

Yes No

Accepted 209.3K | Submissions 262.7K | Acceptance Rate 79.7%

Topics

Companies

Hint 1

Hint 2

Similar Questions

Discussion (21)

1.2K 21

Code

Python3 • Auto

```python
class Solution:
    def findBuildings(self, heights: List[int]) -> List[int]:

        maxi = 0

        res = []


        for i in range(len(heights)-1, -1, -1):
            if heights[i] > maxi:
                res.append(i)
                maxi = heights[i]

        return res[::-1]


```

Saved Ln 9, Col 48

Testcase | Test Result

Accepted Runtime: 55 ms

Case 1 Case 2 Case 3

Input

heights =
[4,2,3,1]

Stdout

```
1 0 3
3 1 2
2 3 1
4 3 0
```

Output

[0,2,3]