

Java Developer Alumni Batch 2 Algo Question

Assignment 5

Description:

Buildings with sunset view

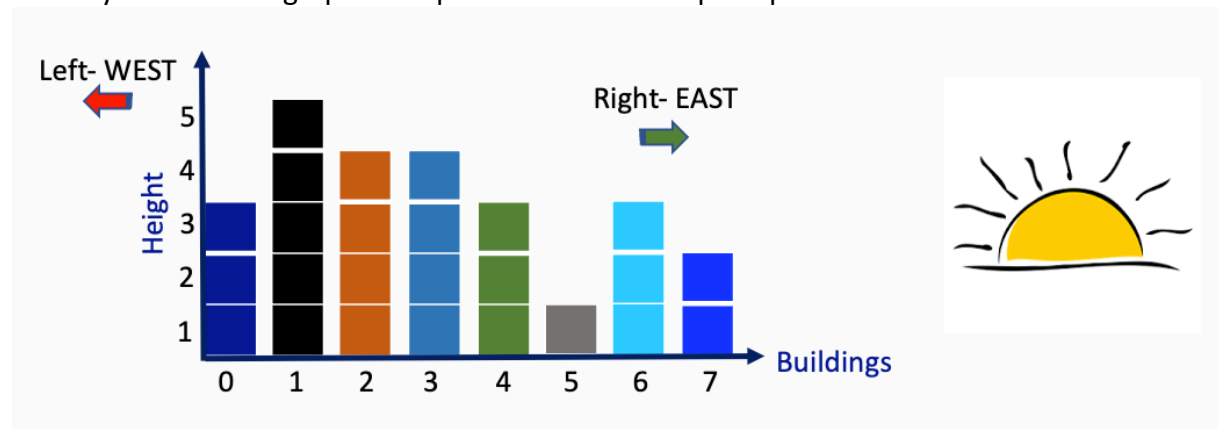
Difficulty: Easy Category: stack

Given an array of buildings and a direction that all of the buildings face, return an array of the indices of the buildings that can see the sunset. A building can see the sunset if it's strictly taller than all of the buildings that come after it in the direction that it faces. The input array named `buildings` contains positive, non-zero integers representing the heights of the buildings. A building at index `i` thus has a height denoted by `buildings[i]`. All of the buildings face the same direction, and this direction is either east or west, denoted by the input string named `direction`, which will always be equal to either "EAST" or "WEST". In relation to the input array, you can interpret these directions as right for east and left for west. Important note: the indices in the output array should be sorted in ascending order.

Sample Input #1 `buildings = [3, 5, 4, 4, 3, 1, 3, 2]` `direction = "EAST"`

Sample Output #1 `[1, 3, 6, 7]` //

Below you can see a graphical representation of sample input #1.



Sample Input #2 `buildings = [3, 5, 4, 4, 3, 1, 3, 2]` `direction = "WEST"`

Sample Output #2 `[0, 1]`

// The buildings are the same as in the first sample // input, but their direction is reversed.

```
public ArrayList<Integer> sunsetViews(int[] buildings, String direction) {  
    // Write your code here.  
    return new ArrayList<Integer>();  
}
```

Good luck!

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