1503. Last Moment Before All Ants Fall Out of a Plank

Hint

Medium 1.2K 332

Companies

We have a wooden plank of the length `n` **units**. Some ants are walking on the plank, each ant moves with a speed of **1 unit per second**. Some of the ants move to the **left**, the other move to the **right**.

When two ants moving in two **different** directions meet at some point, they change their directions and continue moving again. Assume changing directions does not take any additional time.

When an ant reaches **one end** of the plank at a time `t`, it falls out of the plank immediately.

Given an integer `n` and two integer arrays `left` and `right`, the positions of the ants moving to the left and the right, return *the moment when the last ant(s) fall out of the plank*.

Code

```
class Solution {
    func getLastMoment(_ n: Int, _ left: [Int], _ right:
[Int]) -> Int {
        if(left.count == 0) {
            if let maxNumber = right.min() {
                return n - maxNumber
            }

        }
        if(right.count == 0) {
            if let maxNumber = left.max() {
                return maxNumber
            }
        }

        var minRight1 = n
        if let minRight = right.min() {
                minRight1 = n - minRight
        }

        var maxleft = 0
        if let minRight = left.max() {
                maxleft = minRight
```

```
            }

            return max(minRight1,maxleft)

        }
    }
```