Our Solution(s)

33

x, y in

Run Code

Your Solutions

14рх

Run Code

```
Solution 1
 1 // Copyright © 2020 AlgoExpert, LLC. All rights reserved.
   class Program {
       // O(n) time | O(n) space
4
       func waterArea(heights: [Int]) -> Int {
           var maxes = Array(repeating: 0, count: heights.count)
           var leftMax = 0
9
           for i in 0 ...< heights.count {</pre>
              let currentHeight = heights[i]
10
11
12
               maxes[i] = leftMax
13
               leftMax = max(leftMax, currentHeight)
14
15
           var rightMax = 0
16
17
18
           let currentHeight = heights[i]
19
20
21
               let minMax = min(rightMax, maxes[i])
22
23
               if currentHeight < minMax {</pre>
                  maxes[i] = minMax - currentHeight
25
               } else {
26
                  maxes[i] = 0
27
28
29
               rightMax = max(rightMax, currentHeight)
30
           }
31
32
           return maxes.reduce(0) {
```

```
class Program {
  func waterArea(heights: [Int]) -> Int {
    // Write your code here.
  return -1
}
}
```

Run or submit code when you're ready.