Solution 1 Solution 2 Solution 3

Our Solution(s)

26 exports.waterArea = waterArea;

THE RESERVE TO STREET

27

Run Code

Your Solutions

14рх

Run Code

```
Solution 1
1 // Copyright © 2020 AlgoExpert, LLC. All rights reserved.
3 // O(n) time | O(n) space
4 function waterArea(heights) {
    const maxes = new Array(heights.length).fill(0);
     let leftMax = 0;
     for (let i = 0; i < heights.length; i++) {</pre>
       const height = heights[i];
       maxes[i] = leftMax;
9
       leftMax = Math.max(leftMax, height);
10
11
12
     let rightMax = 0;
13
     for (let i = heights.length - 1; i >= 0; i--) {
       const height = heights[i];
14
15
       const minHeight = Math.min(rightMax, maxes[i]);
      if (height < minHeight) {</pre>
16
17
        maxes[i] = minHeight - height;
18
       } else {
19
        maxes[i] = 0;
20
21
       rightMax = Math.max(rightMax, height);
22
23
     return maxes.reduce((a, b) => a + b, 0);
24 }
25
```

```
function waterArea(heights) {
   // Write your code here.
}

// Do not edit the line below.
exports.waterArea = waterArea;
```

Run or submit code when you're ready.

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