

Our Solution(s)

Run Code

Your Solutions

Run Code

Solution 1

```
1 # Copyright © 2020 AlgoExpert, LLC. All rights reserved.
2
3 # O(n) time | O(n) space
4 def waterArea(heights):
5     maxes = [0 for x in heights]
6     leftMax = 0
7     for i in range(len(heights)):
8         height = heights[i]
9         maxes[i] = leftMax
10        leftMax = max(leftMax, height)
11    rightMax = 0
12    for i in reversed(range(len(heights))):
13        height = heights[i]
14        minHeight = min(rightMax, maxes[i])
15        if height < minHeight:
16            maxes[i] = minHeight - height
17        else:
18            maxes[i] = 0
19    rightMax = max(rightMax, height)
20    return sum(maxes)
21
```

Solution 1

Solution 2

Solution 3

```
1 def waterArea(heights):
2     # Write your code here.
3     pass
4
```

Our Tests

Custom Output

Submit Code

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def waterArea(heights):

Write your code here.

pass

```
10 # Add a new element to the list
11 list.append(10)
12 # Print the list
13 print(list)
14
15 # Add a new element to the list
16 list.append(20)
17 # Print the list
18 print(list)
19
20 # Add a new element to the list
21 list.append(30)
22 # Print the list
23 print(list)
24
25 # Add a new element to the list
26 list.append(40)
27 # Print the list
28 print(list)
29
30 # Add a new element to the list
31 list.append(50)
32 # Print the list
33 print(list)
```

Run or submit code when you're ready.