

Our Solution(s)

Run Code

Your Solutions

Run Code

Solution 1

```
1 // Copyright © 2020 AlgoExpert, LLC. All rights reserved.
2
3 package main
4
5 // O(n) time | O(n) space
6 func WaterArea(heights []int) int {
7     maxes := make([]int, len(heights))
8     leftmax := 0
9     for i, height := range heights {
10         maxes[i] = leftmax
11         leftmax = max(leftmax, height)
12     }
13     rightmax := 0
14     for i := range heights {
15         j := len(heights) - i - 1
16         height := heights[j]
17         minheight := min(rightmax, maxes[j])
18         if height < minheight {
19             maxes[j] = minheight - height
20         } else {
21             maxes[j] = 0
22         }
23         rightmax = max(rightmax, height)
24     }
25     return sum(maxes)
26 }
27
28 func min(arg1 int, rest ...int) int {
29     curr := arg1
30     for _, num := range rest {
31         if num < curr {
32             curr = num
33         }
34     }
35 }
```

Solution 1 Solution 2 Solution 3

```
1 package main
2
3 func WaterArea(heights []int) int {
4     // Write your code here.
5     return -1
6 }
7
```

Our Tests

Custom Output

Submit Code

1 package main

2

3 func WaterArea(heights []int) int {

4 // Write your code here.

5 return -1

6 }

7

1 package main

2

3 func WaterArea(heights []int) int {

4 // Write your code here.

5 return -1

6 }

7

```
11 Run in "Python3 (ipython) (Python 3)"
12 importlib = 0
13 importlib = importlib.importlib
14 importlib.importlib, importlib, importlib
15 0
16
17 Run in "Python3 (ipython) (Python 3)"
18 importlib = 0
19 importlib = importlib.importlib(0, 0, 0, 0, 0)
20 importlib.importlib, importlib, importlib
21 0
22
23 Run in "Python3 (ipython) (Python 3)"
24 importlib = 0
```

Run or submit code when you're ready.