Our Solution(s) Run Code

Solution 1

```python
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# O(n) time | O(n) space
def waterArea(heights):
    maxes = [0 for x in heights]
    leftMax = 0
    for i in range(len(heights)):
        height = heights[i]
        maxes[i] = leftMax
        leftMax = max(leftMax, height)
    rightMax = 0
    for i in reversed(range(len(heights))):
        height = heights[i]
        minHeight = min(rightMax, maxes[i])
        if height < minHeight:
            maxes[i] = minHeight - height
        else:
            maxes[i] = 0
        rightMax = max(rightMax, height)
    return sum(maxes)

```

Your Solutions Run Code

Solution 1 Solution 2 Solution 3

```python
def waterArea(heights):
    # Write your code here.
    pass

```

Our Tests

Custom Output Submit Code

Run or submit code when you're ready.