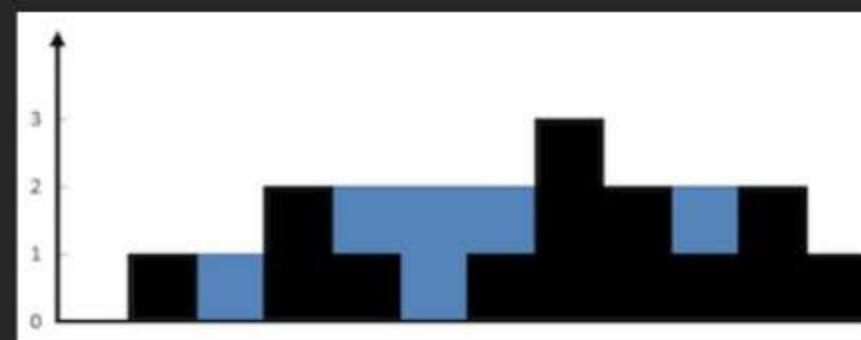


 Description |  Accepted X |  Editorial |  Solutions |  Submissions

42. Trapping Rain Water

Given n non-negative integers representing an elevation map where the width of each bar is 1, compute how much water it can trap after raining.

Example 1:



Input: height = [0,1,0,2,1,0,1,3,2,1,2,1]

Output: 6

Explanation: The above elevation map (black section) is represented by array [0,1,0,2,1,0,1,3,2,1,2,1]. In this case, 6 units of rain water (blue section) are being trapped.

Example 2:

Input: height = [4,2,0,3,2,5]

Output: 9

```
Code Java ▾ Auto

1 class Solution {
2     public int trap(int[] h) {
3         int l = 0, r = h.length - 1;
4         int lmax = 0, rmax = 0;
5         int water = 0;
6
7         while (l < r) [
8             if (h[l] < h[r]) {
9                 if (h[l] >= lmax)
10                     lmax = h[l];
11                 else
12                     water += lmax - h[l];
13                 l++;
14             } else {
15                 if (h[r] >= rmax)
16                     rmax = h[r];
17                 else
18                     water += rmax - h[r];
19                 r--;
20             }
21         }
22         return water;
23     }
24 }
```

Saved

Ln 21, Col 10

Testcase | Test Result

Accepted Runtime: 0 ms

Case 1 Case 2

Input

height =

[0,1,0,2,1,0,1,3,2,1,2,1]

Output

[Description](#) | [Accepted](#) X | [Editorial](#) | [Solutions](#) | [Submissions](#)

11. Container With Most Water

Solved

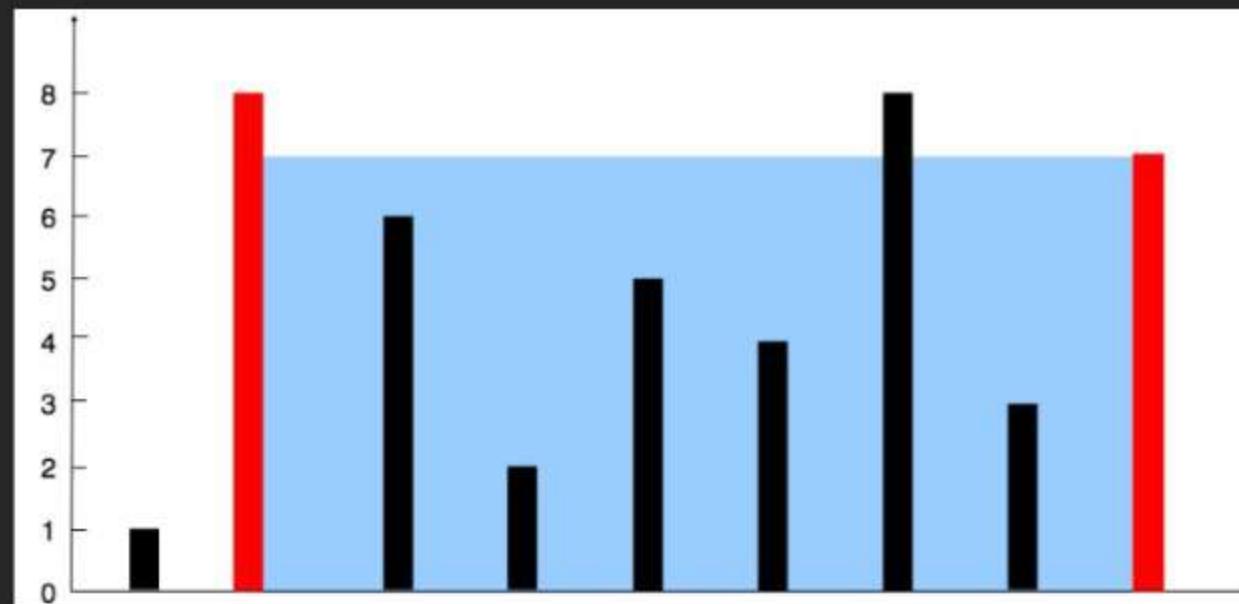
[Medium](#)[Topics](#)[Companies](#)[Hint](#)

You are given an integer array `height` of length `n`. There are `n` vertical lines drawn such that the two endpoints of the `ith` line are `(i, 0)` and `(i, height[i])`.

Find two lines that together with the x-axis form a container, such that the container contains the most water.

Return *the maximum amount of water a container can store*.

Notice that you may not slant the container.

Example 1:

33.6K

840



595 Online

</> Code

Java Auto

```
1 class Solution {  
2     public int maxArea(int[] h) {  
3         int l = 0, r = h.length - 1;  
4         int max = 0;  
5  
6         while (l < r) {  
7             int area = Math.min(h[l], h[r]) * (r - l);  
8             max = Math.max(max, area);  
9  
10            if (h[l] < h[r])  
11                l++;  
12            else  
13                r--;  
14        }  
15    }  
16 }
```

Saved

Ln 17, Col 2

[Testcase](#) [Test Result](#)**Accepted** Runtime: 0 ms Case 1 Case 2

Input

height =

[1,8,6,2,5,4,8,3,7]

Output

49

[Description](#) | [Accepted](#) X | [Editorial](#) | [Solutions](#) | [Submissions](#)

26. Remove Duplicates from Sorted Array

Solved

[Easy](#) [Topics](#) [Companies](#) [Hint](#)

Given an integer array `nums` sorted in **non-decreasing order**, remove the duplicates **in-place** such that each unique element appears only **once**. The **relative order** of the elements should be kept the **same**.

Consider the number of *unique elements* in `nums` to be `k`. After removing duplicates, return the number of unique elements `k`.

The first `k` elements of `nums` should contain the unique numbers in **sorted order**. The remaining elements beyond index `k - 1` can be ignored.

Custom Judge:

The judge will test your solution with the following code:

```
int[] nums = [...]; // Input array
int[] expectedNums = [...]; // The expected answer with correct
length

int k = removeDuplicates(nums); // Calls your implementation

assert k == expectedNums.length;
for (int i = 0; i < k; i++) {
    assert nums[i] == expectedNums[i];
}
```

If all assertions pass, then your solution will be **accepted**.

</> Code

Java Auto

```
1 class Solution {
2     public int removeDuplicates(int[] a) {
3         if (a.length == 0) return 0;
4
5         int j = 0;
6
7         for (int i = 1; i < a.length; i++) {
8             if (a[i] != a[j]) {
9                 j++;
10                a[j] = a[i];
11            }
12        }
13        return j + 1;
14    }
15 }
16 }
```

Saved

[Testcase](#) [Test Result](#)

nums =

[1,1,2]

Output

[1,2]

Expected

[1,2]

Contribute a testcase