



Dash



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## Container With Most Water

Difficulty: Medium

Accuracy: 53.84%

Submissions: 75K+

Points: 4

Given an array `arr[]` of non-negative integers, where each element `arr[i]` represents the height of the **vertical lines**, find the **maximum amount of water** that can be contained between any two lines, together with the x-axis.

Note: In the case of a single vertical line it will not be able to hold water.

### Examples:

**Input:** `arr[] = [1, 5, 4, 3]`

**Output:** 6

**Explanation:** 5 and 3 are 2 distance apart. So the size of the base is 2. Height of container =  $\min(5, 3) = 3$ . So, total area to hold water =  $3 * 2 = 6$ .

**Input:** `arr[] = [3, 1, 2, 4, 5]`

**Output:** 12

**Explanation:** 5 and 3 are 4 distance apart. So the size of the base is 4. Height of container =  $\min(5, 3) = 3$ . So, total area to hold water =  $4 * 3 = 12$ .

Java (1.8)

Average Time: 30m

Start Timer



```
1 // } Driver Code Ends
19 class Solution {
20     public int maxWater(int arr[]) {
21         int l = 0, r = arr.length - 1, maz = 0;
22         while (l < r) {
23             int h = Math.min(arr[l], arr[r]);
24             int w = r - l;
25             int ca = h * w;
26             maz = Math.max(maz, ca);
27             if (arr[l] <= arr[r]) {
28                 l++;
29             } else {
30                 r--;
31             }
32         }
33         return maz;
34     }
35 }
```



Custom Input

Compile &amp; Run

Submit