## 11. Container With Most Water

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Question Editorial Solution

My Submissions (/problems/container-with-most-water/submissions/)

Total Accepted: 113302 Total Submissions: 313697 Difficulty: Medium Contributors: Admin

Given n non-negative integers  $a_1, a_2, ..., a_n$ , where each represents a point at coordinate  $(i, a_i)$ . n vertical lines are drawn such that the two endpoints of line i is at  $(i, a_i)$  and  $(i, a_i)$  and  $(i, a_i)$  are drawn such that the two endpoints of line i is at  $(i, a_i)$  and  $(i, a_i)$  and  $(i, a_i)$  are drawn such that the two endpoints of line i is at  $(i, a_i)$  and  $(i, a_i)$  and  $(i, a_i)$  are drawn such that the two endpoints of line i is at  $(i, a_i)$  and  $(i, a_i)$  and  $(i, a_i)$  are drawn such that the two endpoints of line i is at  $(i, a_i)$  and  $(i, a_i)$  and  $(i, a_i)$  are drawn such that the two endpoints of line i is at  $(i, a_i)$  and  $(i, a_i)$  are drawn such that the two endpoints of line i is at  $(i, a_i)$  and  $(i, a_i)$  and  $(i, a_i)$  are drawn such that the two endpoints of line i is at  $(i, a_i)$  and  $(i, a_i)$  are drawn such that the two endpoints of line i is at  $(i, a_i)$  and  $(i, a_i)$  and  $(i, a_i)$  are drawn such that the two endpoints of line i is at  $(i, a_i)$  and  $(i, a_i)$  are drawn such that the two endpoints of line i is at  $(i, a_i)$  and  $(i, a_i)$  and  $(i, a_i)$  are drawn such that the two endpoints of line i is at  $(i, a_i)$  and  $(i, a_i)$  are drawn such that the two endpoints of line i is at  $(i, a_i)$  and  $(i, a_i)$  are drawn such that the two endpoints of line i is at  $(i, a_i)$  and  $(i, a_i)$  are drawn such that the two endpoints of line i is at  $(i, a_i)$  and  $(i, a_i)$  and  $(i, a_i)$  are drawn such that the two endpoints of line i is at  $(i, a_i)$  and  $(i, a_i)$  and  $(i, a_i)$  are drawn such that the two endpoints of line i is at  $(i, a_i)$  and  $(i, a_i)$  and  $(i, a_i)$  are drawn such that the two endpoints of line i is at  $(i, a_i)$  and  $(i, a_i)$  and  $(i, a_i)$  are drawn such that the two endpoints of line i is at  $(i, a_i)$  and  $(i, a_i)$  are drawn such that  $(i, a_i)$  are drawn such that (i

0). Find two lines, which together with x-axis forms a container, such that the container contains the most water.

Note: You may not slant the container and n is at least 2.



Discuss (https://discuss.leetcode.com/category/19)

Top Solutions

Pick One (/problems/random-one-question/)

```
C
C++
     class Solution {
  1
     public:
  3
         // should use two pointers
          int maxArea(vector<int>& height) {
  5
              int i = 0, j = height.size()-1, maxArea = 0;
  6
              while(i < j) {
                  maxArea = max(maxArea, (j-i) * min(height[i], height[j]));
  7
  8
                  if (height[i] < height[j]) i++;</pre>
  9
                  else j--;
 10
 11
              return maxArea;
 12
         }
 13
 14
 15
 16
         // int maxArea(vector<int>& height) {
 17
                 int N = height.size();
         //
 18
 19
                 int i = 0, j = N-1;
         //
 20
         //
                 int res = 0;
 21
         //
                 while(i<j) {</pre>
 22
         //
                     if(height[i] <= height[j]) {</pre>
 23
                          res = max(res, (j-i)*height[i]);
 24
         //
                          i++;
 25
          //
                     } else {
 26
                          res = max(res, (j-i)*height[j]);
         //
 27
         //
                          j--;
 28
          //
                     }
 29
          //
 30
          //
                 return res;
         // }
 31
 32 };
```

Custom Testcase

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