

11. Container With Most Water

Solved &



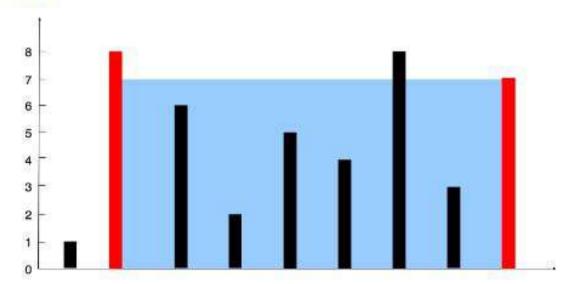
You are given an integer array height of length n. There are n vertical lines drawn such that the two endpoints of the ith line are (i, 0) and (i, height[i]).

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:



Input: height = [1,8,6,2,5,4,8,3,7]

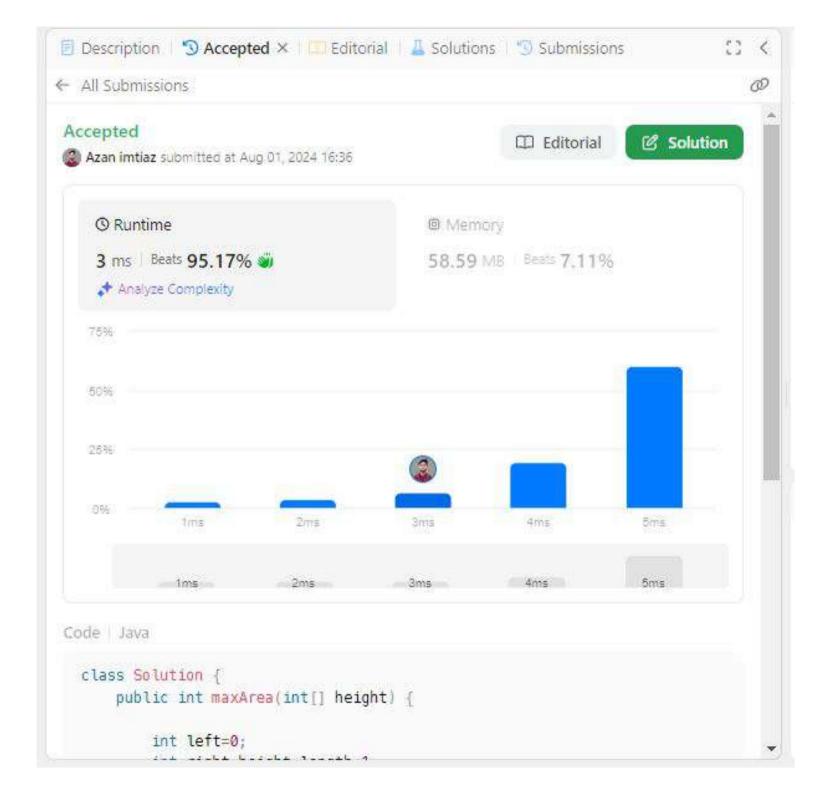
Output: 49

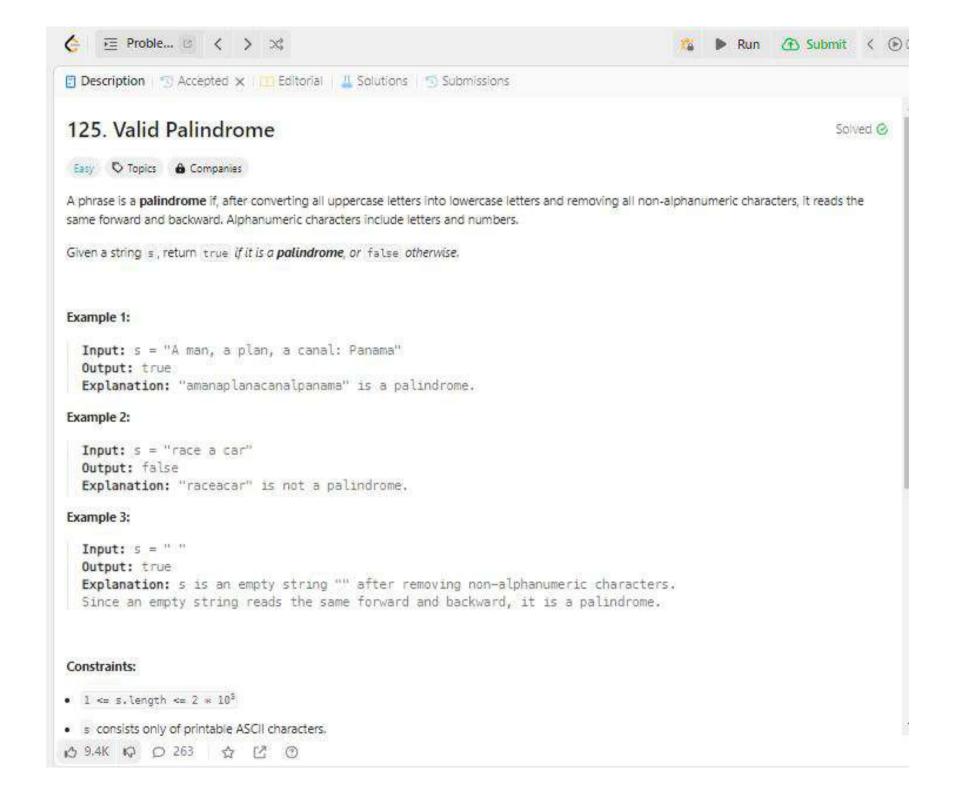
Explanation: The above vertical lines are represented by array [1,8,6,2,5,4,8,3,7]. In this case, the max area of water (blue section) the container can contain is 49.

Container With Most Water> Input height - [1,8,6,2,5,4,8,3,7] Output 49 Two pointer Approach Start From left (0) and right (lensth-1) Calculate the Stored Water (mincheight [left] iright] * (right !left) If it is greated than max which was initially at o update the max with storedwater If height[left] > height[right] move & right pointer (right --) else move left pointer (left++) Continue this process in a loop aduntil left & right After that seturn max

三 口()りご ava 🗸 🗎 Auto public int maxArea(int[] height) { 2 3 int left = 0: 4 int right = height.length - 1; 5 int max = 0; 6 while (left < right) { 7 8 int temp; 9 10 int width = right - left; 11 12 if (height[left] > height[right]) { 13 14 temp = width * height[right]; 15 if (temp > max) 16 max = temp; 17 right--; 18 } else { 19 temp = width * height[left]; 20 if (temp > max) 21 22 max = temp; 23 left++: 24 25 26 27 return max; 28 29 1

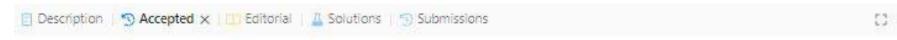
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Valid Palindsome Approach> Simply Used two pointers approach from left and right. Inside ontex loop apply one loop to

avoid non alphanumeric character on left sideone loop to avoid nonalphonumeric And on right side-After that convert both left and right character to lower case and the compare both characters-



← All Submissions



Code Java

```
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Java V A Auto
  1 class Solution {
          public boolean isPalindrome(String s) {
  3
              int 1=8;
              int r=s.length()-1;
  4
  5
               while(lkr){
   6
                  while (1 < r && !Character.isLetterOrDigit(s.charAt(1))) {
                     1++;
  8
  9
  18
                 // Move right pointer to the previous alphanumeric character
                 while (1 < r && !Character.isLetterOrDigit(s.charAt(r))) {
  11
  12
  13
  14
  15
                  // Compare characters
                 if (Character.toLowerCase(s.charAt(1)) != Character.toLowerCase(s.charAt(r))) {
  16
                     return false;
  17
  18
  19
                  1++;
  28
                  r -- ;
  21
  22
               return true;
  23
 24 }
Saved
                                                                                                   Ln 1 Col 1
Testcase )_ Test Result
               * Last 2
   * Case I
                           * 1.d5t 5
```