

11. Container With Most Water

Medium

11397

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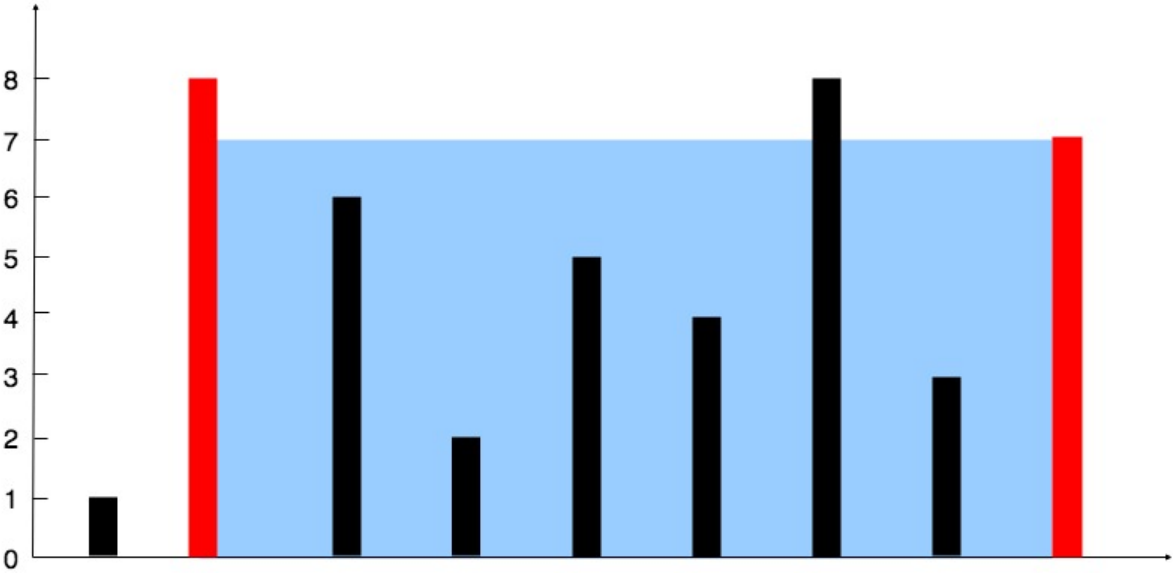
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Given n non-negative integers a_1, a_2, \dots, a_n , where each represents a point at coordinate (i, a_i) . n vertical lines are drawn such that the two endpoints of the line i is at (i, a_i) and $(i, 0)$. Find two lines, which, together with the x-axis forms a container, such that the container contains the most water.

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.

Example 2:

Input: height = [1,1]
Output: 1

Example 3:

Input: height = [4,3,2,1,4]
Output: 16

Example 4:

Input: height = [1,2,1]
Output: 2

Constraints:

- $n == \text{height.length}$
- $2 \leq n \leq 10^5$
- $0 \leq \text{height}[i] \leq 10^4$

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```
1 class Solution {
2     public int maxArea(int[] height) {
3
4     }
5 }
```

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