# 11. Container With Most Water

<ul><li>Difficulty</li></ul>	medium
$\checkmark$	<b>✓</b>
Finished	@July 9, 2023
∷ Problem	array
∷ Previously asked company	Amazon Facebook Google
• website	leetcode

### **Question:**

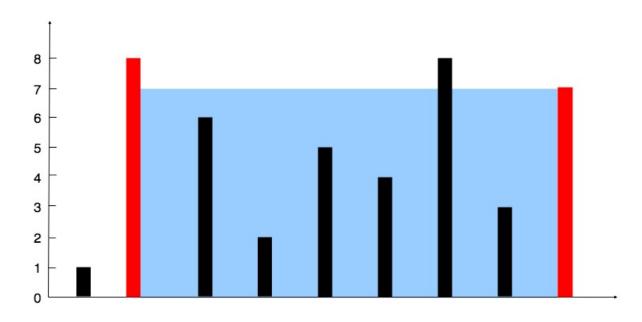
You are given an integer array height of length n. There are n vertical lines drawn such that the two endpoints of the i the line are (i, 0) and (i, height[i]).

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 thi
s case, the max area of water (blue section) the container can contain is 49.

## **Example 2:**

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

## **Optimal solution:**

Time complexity: O(n)

Space complexity: O(1)