# Problem 11: Container With Most Water

## Problem Information

**Difficulty:** Medium
**Acceptance Rate:** 59.00%
**Paid Only:** No
**Tags:** Array, Two Pointers, Greedy

## Problem Description

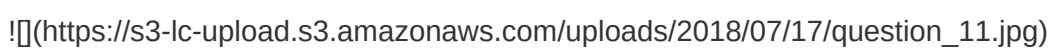
You are given an integer array `height` of length `n`. There are `n` vertical lines drawn such that the two endpoints of the `ith` line are `(i, 0)` and `(i, height[i])`.

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.

**Example 2:**

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

**Constraints:**

* `n == height.length` * `2 <= n <= 105` * `0 <= height[i] <= 104`

## Code Snippets

### C++:

```
class Solution {
public:
int maxArea(vector<int>& height) {

}
};
```

### Java:

```
class Solution {
public int maxArea(int[] height) {

}
}
```

### Python3:

```
class Solution:
def maxArea(self, height: List[int]) -> int:
```