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11. Container With Most Water

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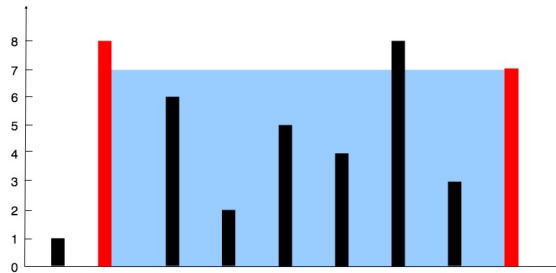
You are given an integer array `height` of length `n`. There are `n` vertical lines drawn such that the two endpoints of the i^{th} line are $(i, 0)$ and $(i, \text{height}[i])$.

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:

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

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i C++ Autocomplete

```
1 class Solution {
2 public:
3     int maxArea(vector<int>& height) {
4     }
5 }
6
```

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