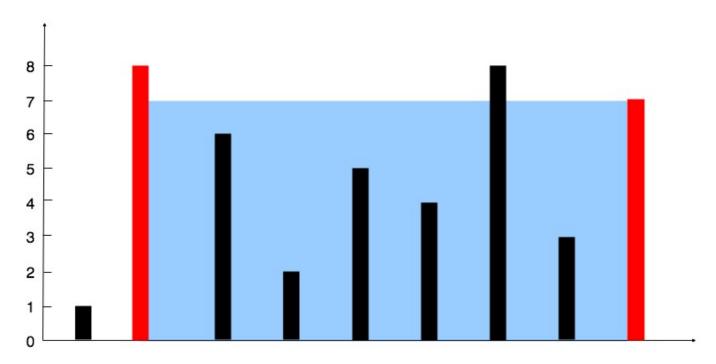
11. Container With Most Water

Given n non-negative integers (a₁, a₂, ..., 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 == height.length
    2 <= n <= 10<sup>5</sup>
    0 <= height[i] <= 10<sup>4</sup>
```

```
class Solution:
    def maxArea(self, height: List[int]) -> int:
        maxarea = 0
    i = 0
    j = len(height)-1
    while i<j:
        H = min(height[i], height[j])
        W = abs(i-j)
        maxarea = max(maxarea, H*W)
        if height[i]<height[j]:
        i = i+1
        else:
        j = j-1
    return maxarea</pre>
```