011. Container With Most Water

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• Two Pointer+Array

Description

Given n non-negative integers a1, a2, ..., an, where each represents a point at coordinate (i, ai). n vertical lines are drawn such that the two endpoints of line i is at (i, ai) and (i, o). Find two lines, which together with x-axis forms a container, such that the container contains the most water.

Note: You may not slant the container and n is at least 2.

1. Thought Line

2. Two Pointer+Array

```
1 class Solution {
 3
       int maxArea(vector<int>& height) {
 4
         int water = 0;
 5
        int i = 0, j = height.size() - 1;
 6
       while (i < j) {
 7
           int h = min(height[i], height[j]);
             water = max(water, (j - i) * h);
 8
             while (height[i] \leftarrow h && i < j) i++;
 9
10
           while (height[j] \leftarrow h && i < j) j--;
11
12
       return water;
13
14 };
```