75 Days of Code

Day12 Problem no: 11

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

For this problem,

- Take two pointers as startIndex , endIndex and loop the array while startIndex
 endIndex
- 2. Calculate the area where height is will be minimum of start and end and width will be from endIndex to startIndex
- 3. Compare it with maxarea

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4. Decrease the pointer (startIndex, or endIndex) whose height is small

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[Running] node "c:\Users\Shubham\Desktop\75daysOfCode\75DaysOfCode\day12.js"
49
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