

11. Container With Most Water

Medium

10/10/20

Given n non-negative integers a_1, a_2, \dots, a_n , where each represents a point at coordinate (i, a_i) . n vertical lines are drawn such that the two endpoints of line i are at $(i, 0)$ and (i, a_i) . Two lines i and j form a container with the area equal to $\min(a_i, a_j) \times (j - i)$. Find two lines that together with the x-axis form a container that holds the most water.

Note: You may not slant the container.



Area = 2



Area = 4



Area = 6



Area = 8

Example 1:

```
Input: [1,8,6,2,5,4,8,3,7]
Output: 49
```

Example 2:

```
Input: [1,1]
Output: 1
```

