**[Container With Most Water](https://leetcode.com/problems/container-with-most-water/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,0). Find two lines, which together with x-axis forms a container, such that it contains the most water.

Note : In Case of single verticle line it will not be able to hold water.

**Example 1:**

**Input:**

N = 4

a[] = {1,5,4,3}

**Output:** 6

**Explanation:** 5 and 3 are distance 2 apart.

So the size of the base = 2. Height of

container = min(5, 3) = 3. So total area

= 3 \* 2 = 6.

**Example 2:**

**Input:**

N = 5

a[] = {3,1,2,4,5}

**Output:** 12

**Explanation:** 5 and 3 are distance 4 apart.

So the size of the base = 4. Height of

container = min(5, 3) = 3. So total area

= 4 \* 3 = 12.

**Example 3:**

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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.

**Your Task :**  
You only need toimplement the given function**maxArea**. Do not read input, instead use the arguments given in the function and return the desired output.

**Expected Time Complexity:**O(N).  
**Expected Auxiliary Space:**O(1).

**Constraints:**  
1<=N<=105  
1<=A[i]<=100