

## Challenge

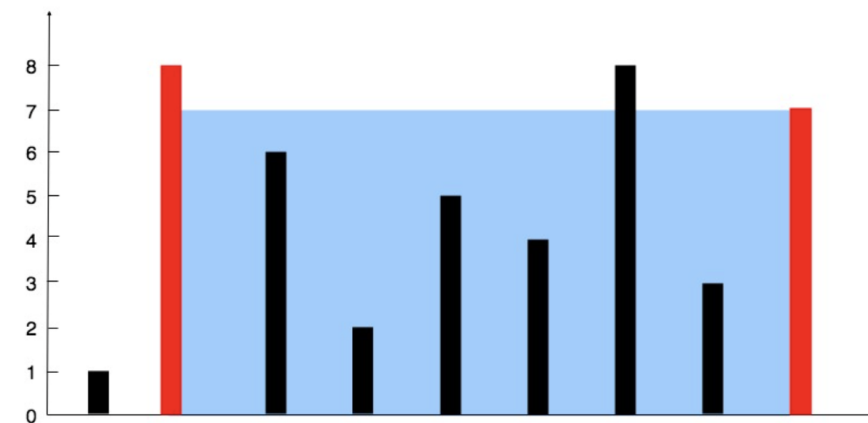
You are given an integer array `height` of length `n`. There are `n` vertical lines drawn such that the two endpoints of the `i`th line are  $(i, 0)$  and  $(i, \text{height}[i])$ .

Find two lines that together with the x-axis form a container, such that the area is the biggest.

Return the maximum container area.

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 (blue section) of the container is 49.

Example 2:

**Input:** `height = [1,1]`

**Output:** 1

Constraints

- `n == height.length`
- `2 <= n <= 105`
- `0 <= height[i] <= 104`

Required:

## Java Challenge

- Unit Testing
- Any Java Version
- Expose it as Rest Api - Spring boot
- Upload the Code to Github and share the link