

# Container with the Most Water

Try to solve the Container with the Most Water problem.

We'll cover the following ^

- Statement
- Examples
- Understand the problem
- Try it yourself

## Statement

You're 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  $(i, height[i])$ .

Find two lines that, together with the x-axis, form a container that holds as much water as possible. Return the maximum amount of water a container can store.

**Note:** You may not slant the container.

### Constraints:

- $n = height.length$
- $2 \leq n \leq 10^3$
- $0 \leq height[i] \leq 10^3$

## Examples

### Sample example 1

#### Input

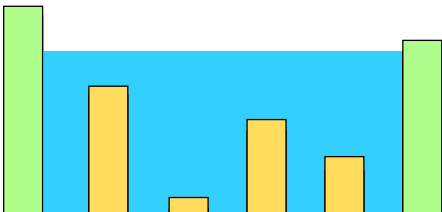
height	2	8	6	3	5	4	7
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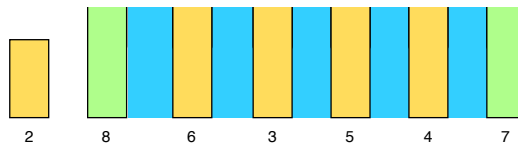
#### Output

Output	35
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### Explanation

There are five blocks of water between the column with the heights 7 and 8. We select the minimum of the two heights, which is 7 and multiply that by 5 to get 35.





1 of 2

## Sample example 2

Input

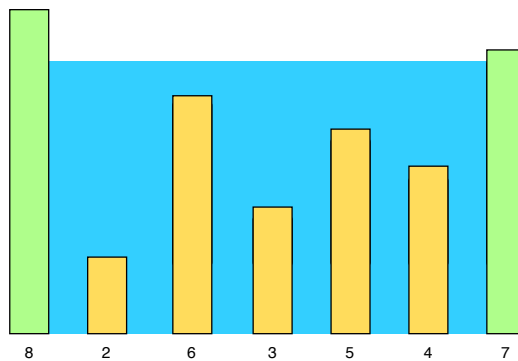
height	8	2	6	3	5	4	7
--------	---	---	---	---	---	---	---

Output

Output	42
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## Explanation

There are six blocks of water between the column with the heights 7 and 8. We select the minimum of the two heights, which is 7 and multiply that by 6 to get 42.



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## Understand the problem

Let's take a moment to make sure you've correctly understood the problem. The quiz below helps you check if you're solving the correct problem:

Container with the Most Water

1

What is the maximum amount of water a container can store if we have the following input?

height = [1, 1]

A) 1

B) 2

?

Tt

⌂

C) 0

Submit Answer



Question 1 of 2  
0 attempted



Reset Quiz ↻

## Try it yourself

Implement your solution in the following coding playground.

Java



usercode > Solution.java

```
1 import java.util.*;
2 public class Solution{
3     public static int containerWithMostWater(int[] height) {
```

```
7         return -1;
8     }
9 }
```

Powered by AI



Submit

Test Cases

Results

Case 1

Case 2

Case 3

Input #1

[1,8,6,2,5,4,8,3,7]

Container with the Most Water

Hide Hint

You might want to go over the [Two Pointers](#) pattern again.

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Number of 1 Bits

Evaluate Reverse Poli...

✓ Mark as  
Completed



