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976. Largest Perimeter Triangle

Solved

Easy | Topics | Companies

Given an integer array `nums`, return *the largest perimeter of a triangle with a non-zero area, formed from three of these lengths*. If it is impossible to form any triangle of a non-zero area, return `0`.

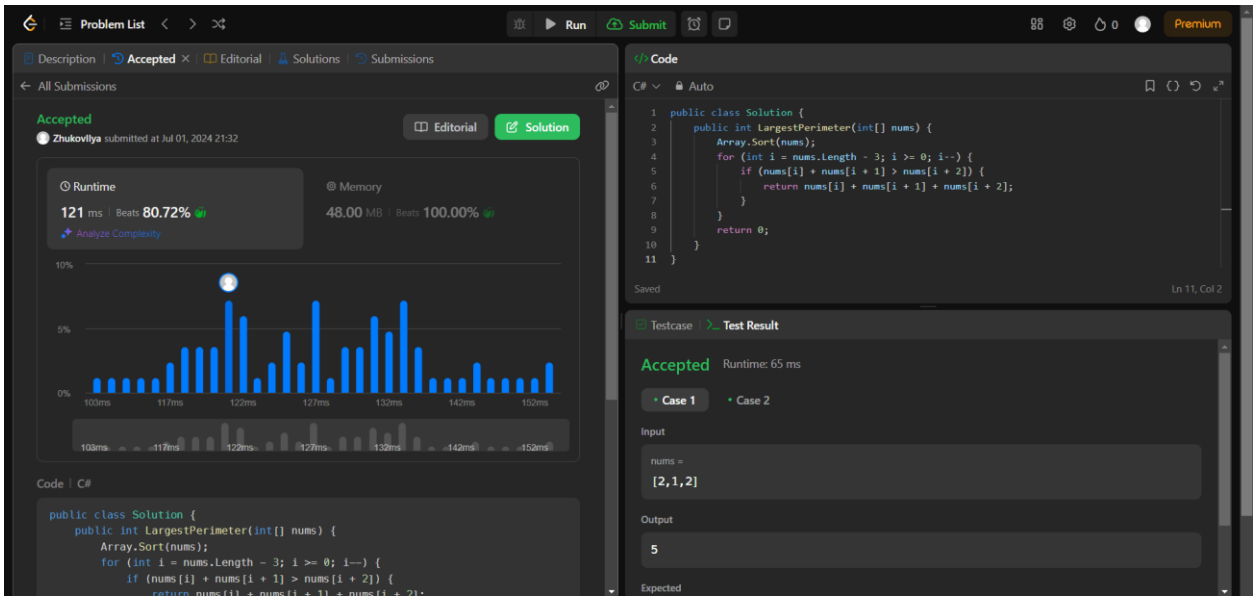
Example 1:

```
Input: nums = [2,1,2]
Output: 5
Explanation: You can form a triangle with three side lengths: 1, 2, and 2.
```

Example 2:

```
Input: nums = [1,2,1,10]
Output: 0
Explanation:
You cannot use the side lengths 1, 1, and 2 to form a triangle.
You cannot use the side lengths 1, 1, and 10 to form a triangle.
You cannot use the side lengths 1, 2, and 10 to form a triangle.
As we cannot use any three side lengths to form a triangle of non-zero area, we
return 0.
```

Constraints:



Код:

```
public class Solution
{
    public int LargestPerimeter(int[] nums)
    {
        Array.Sort(nums);
        for (int i = nums.Length - 3; i >= 0; i--)
```

```
        {
            if (nums[i] + nums[i + 1] > nums[i + 2])
            {
                return nums[i] + nums[i + 1] + nums[i + 2];
            }
        }
        return 0;
    }
}
```