

Problem 628: Maximum Product of Three Numbers

Problem Information

Difficulty: [Easy](#)

Acceptance Rate: 45.57%

Paid Only: No

Tags: Array, Math, Sorting

Problem Description

Given an integer array `nums`, find three numbers whose product is maximum and return the maximum product.

Example 1:

Input: `nums = [1,2,3]` **Output:** 6

Example 2:

Input: `nums = [1,2,3,4]` **Output:** 24

Example 3:

Input: `nums = [-1,-2,-3]` **Output:** -6

Constraints:

`3 <= nums.length <= 10^4` `-1000 <= nums[i] <= 1000`

Code Snippets

C++:

```
class Solution {  
public:  
    int maximumProduct(vector<int>& nums) {  
  
    }  
};
```

Java:

```
class Solution {  
    public int maximumProduct(int[] nums) {  
  
    }  
}
```

Python3:

```
class Solution:  
    def maximumProduct(self, nums: List[int]) -> int:
```