

# 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 <= 104` \* `-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:
```