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