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

Solution:

```
class Solution {
   public int maximumProduct(int[] nums) {
        Arrays.sort(nums);
        int n=nums.length;
        int ans=Math.max(nums[0]*nums[1]*nums[n-1],nums[n-1]*nums[n-2]*nums[n-3]);
        return ans;
   }
}
```