class Solution {

public:

int maximumProduct(vector<int>& nums) {

// Answer is either made up of two negative number and a positive number

// or three positive numbers. We can isolate these 5 numbers of interest in O(1)

// time with a sorted array.

sort(nums.begin(), nums.end()); // n log(n) time complexity

return max(nums[0] \* nums[1] \* nums[nums.size() - 1], nums[nums.size() - 3] \* nums[nums.size() - 2] \* nums[nums.size() - 1]);

}

};