

5424. Maximum Product of Two Elements in an Array

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Given the array of integers `nums`, you will choose two different indices `i` and `j` of that array. *Return the maximum value of* $(\text{nums}[i]-1) * (\text{nums}[j]-1)$.

Example 1:

Input: `nums = [3,4,5,2]`**Output:** 12**Explanation:** If you choose the indices `i=1` and `j=2` (index

User Accepted: 0

User Tried: 0

Total Accepted: 0

Total Submissions: 0

Difficulty: Easy

Example 2:

Input: `nums = [1,5,4,5]`**Output:** 16**Explanation:** Choosing the indices `i=1` and `j=3` (indexed from 0), you will get the maximum value

Example 3:

Input: `nums = [3,7]`**Output:** 12

Constraints:

- $2 \leq \text{nums.length} \leq 500$
- $1 \leq \text{nums}[i] \leq 10^3$

JavaScript ▼



```
1 /**
2  * @param {number[]} nums
3  * @return {number}
4  */
5 const maxProduct = (nums) => {
6     nums.sort((a, b) => b - a);
7     let max = Number.MIN_VALUE;
8     for (let i = 0; i < nums.length; i++) {
9         for (let j = 1; j < nums.length; j++) {
```

```
10         let target = (nums[i] - 1) * (nums[j] - 1);
11         max = Math.max(max, target);
12     }
13 }
14 return max;
15 };
```

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