1464. Maximum Product of Two Elements in an Array

`Easy`   🏷 Topics   🔒 Companies   💡 Hint

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

Example 1:

```
Input: nums = [3,4,5,2]
Output: 12
Explanation: If you choose the indices i=1 and j=2 (indexed from
0), you will get the maximum value, that is, (nums[1]-1)*
(nums[2]-1) = (4-1)*(5-1) = 3*4 = 12.
```

Example 2:

```
Input: nums = [1,5,4,5]
Output: 16
```

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Code

```swift
class Solution {
    func maxProduct(_ nums: [Int]) -> Int {
        var first_max = max(nums[0],nums[1])
        var second_max = min(nums[0],nums[1])

        for i in (2..<nums.count) {
            if(nums[i]>first_max) {
                second_max = first_max
                first_max = nums[i]
            } else if (nums[i]>second_max) {
                second_max = nums[i]
            }
        }

        return (first_max-1)*(second_max-1)
    }
}
```