

PROBLEM: maximum-product-of-two-elements-in-an-array

<https://leetcode.com/problems/maximum-product-of-two-elements-in-an-array/submissions/>

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

```
def maxProduct(self, nums):  
  
    nums = sorted(nums)  
  
    product = (nums[-1]-1) * (nums[-2]-1)  
  
    return product
```

The screenshot shows a web browser with multiple tabs. The active tab is the LeetCode submission page for the problem "Maximum Product of Two Elements in an Array". The page displays the following information:

- Success** Details >
- Runtime: 40 ms, faster than 70.52% of Python online submissions for Maximum Product of Two Elements in an Array.
- Memory Usage: 12.7 MB, less than 65.20% of Python online submissions for Maximum Product of Two Elements in an Array.
- Next challenges: Word Search, Maximum Average Subarray I, Number of Matching Subsequences.
- Show off your acceptance: Facebook, Twitter, LinkedIn.
- A table showing submission details:

Time Submitted	Status	Runtime	Memory	Language
a few seconds ago	Accepted	40 ms	12.7 MB	python

The code editor shows the following Python code:

```
1 class Solution(object):  
2     def maxProduct(self, nums):  
3         nums = sorted(nums)  
4         product = (nums[-1]-1) * (nums[-2]-1)  
5         return product  
6  
7
```

The Testcase tab shows the following results:

- Accepted** Runtime: 16 ms
- Your input: [3,4,5,2]
- Output: 12
- Expected: 12

At the bottom of the page, there is a "Run Code" button and a "Submit" button. An "Activate Windows" watermark is visible in the bottom right corner.