

Description

Solution

Discuss (999+)

Submissions

152. Maximum Product Subarray

Medium 5135 175 Add to List Share

Given an integer array `nums`, find the contiguous subarray within an array (containing at least one number) which has the largest product.

Example 1:

Input: `[2,3,-2,4]`

Output: `6`

Explanation: `[2,3]` has the largest product `6`.

Example 2:

Input: `[-2,0,-1]`

Output: `0`

Explanation: The result cannot be `2`, because `[-2,-1]` is not a subarray.

Accepted 391,566 | Submissions 1,214,565

Seen this question in a real interview before?

Yes

No

Companies

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Java Autocomplete

```
1 class Solution {
2     public int maxProduct(int[] a) {
3         if (a == null || a.length == 0)
4             return 0;
5
6         int ans = a[0], min = ans, max = ans;
7
8         for (int i = 1; i < a.length; i++) {
9             if (a[i] >= 0) {
10                 max = Math.max(a[i], max * a[i]);
11                 min = Math.min(a[i], min * a[i]);
12             } else {
13                 int tmp = max;
14                 max = Math.max(a[i], min * a[i]);
15                 min = Math.min(a[i], tmp * a[i]);
16             }
17
18             ans = Math.max(ans, max);
19         }
20
21         return ans;
22     }
23 }
```

Your previous code was restored from your local storage. [Reset to default](#)

TestcaseRun Code ResultDebugger

Accepted Runtime: 0 ms

Your input

[2,3,-2,4]

Output

6

Diff

Expected

6

ConsoleHow to create a testcase

Run CodeSubmit