

Product of an axray except self

arx = [3, 4|b| 1|2]

output = [48,3b|24|144|72]

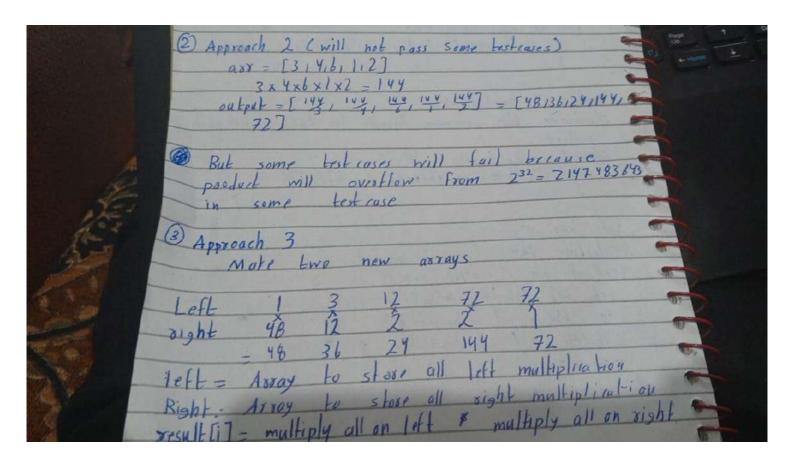
Obsube Force Solution

We can easily solve it in O(N2) time

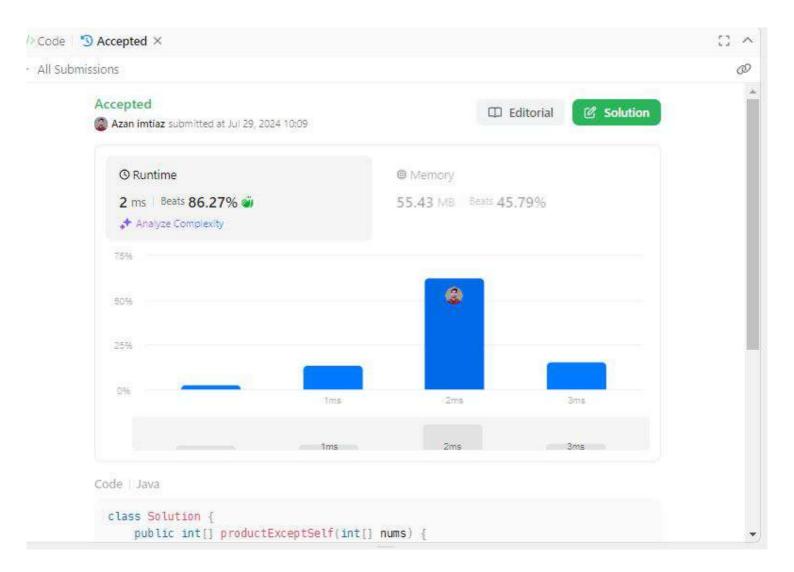
complexity by kno itexating over an array
in the outer loop inside make two
loops first for calculating the product

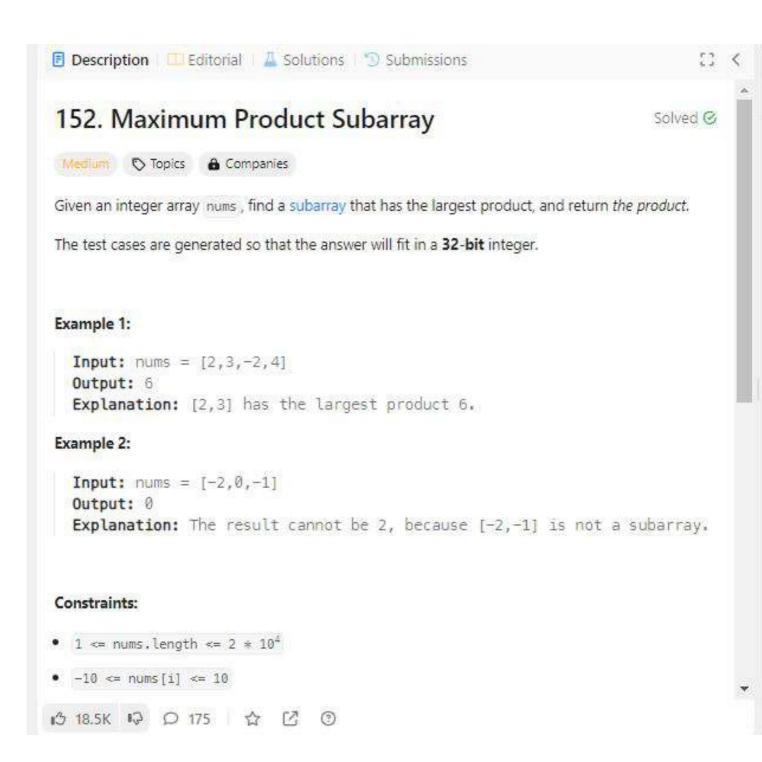
on of left side from i position and second
to calculate product on the right

side - After that add that product
on i position



```
</>Code
                                                                                                      5 □ () □ =
Java 🗸 🔒 Auto
  1 class Solution {
          public int[] productExceptSelf(int[] nums) {
  3
              int n = nums.length;
   4
              int[] left = new int[n];
   5
             int[] right = new int[n];
   6
             int[] result = new int[n];
   7
   8
             // Compute left products
              left[0] = 1;
  9
  10
              for (int i = 1; i < n; i++) {
  11
                 left[i] = left[i - 1] * nums[i - 1];
  12
 13
              // Compute right products
 14
 15
              right[n - 1] = 1;
              for (int i = n - 2; i >= 0; i --) {
 16
 17
                 right[i] = right[i + 1] * nums[i + 1];
  18
  19
 20
              // Compute result array
 21
              for (int i = 0; i < n; i++) {
 22
                 result[i] = left[i] * right[i];
 23
 24
 25
             return result;
 26
 27
     }
Salved.
                                                                                                               Ln 1, Col 1
☑ Testcase >_ Test Result
```





```
</>Code
                                                                                                         ", (*) () □ 重
Java V 🔒 Auto
  1 class Solution {
  public int maxProduct(int[] nums) {
         class Solution {
  3
          public int maxProduct(int[] nums) {
  4
  5
             int n = nums.length;
             if (n == 0) return 0;
  6
  7
             // Initialize variables
  8
  9
             int maxProduct = nums[0];
  10
             int currentMax = nums[0];
             int currentMin = nums[0];
  11
 12
  13
             // Traverse the array
  14
             for (int i = 1; i < n; i++) {
                 int num = nums[i];
 15
                 // If num is negative, swap currentMax and currentMin
 16
 17
                 if (num < 0) {
 18
                     int temp = currentMax;
                     currentMax = currentMin;
 19
  20
                     currentMin = temp;
  21
  22
                 // Update currentMax and currentMin
  23
                 currentMax = Math.max(num, currentMax * num);
  24
  25
                 currentMin = Math.min(num, currentMin * num);
  26
                 // Update maxProduct
  27
  28
                 maxProduct = Math.max(maxProduct, currentMax);
  29
  30
  31
             return maxProduct;
  32
  33 1
```

