

Solution

Sunday, 7 May 2023

11:16 PM

$nums = [2, 3, -2, 4]$

logic:

we need to calculate minimum as well along with the maximum because minimum value after getting multiplied by -ve number can become a large +ve number.

For example:

$$\begin{aligned} &= \text{minimum value} \times (-\text{ve number}) \\ &= -5 \times (-2) \\ &= +10 \rightarrow \text{the big number.} \end{aligned}$$

```
nums = [2,3,-2,4]
def solution(nums):
    result = max(nums)
    currentMaximum, currentMinimum = 1, 1
    for i in nums:
        temp = i*currentMaximum
        currentMaximum = max(i*currentMaximum, i*currentMinimum, i)
        currentMinimum = min(temp, i*currentMinimum, i)
        result = max(result, currentMaximum)

    return result
print(solution(nums))
```

