Product of Array Except Self (/explore/challenge/card/30-day-leetcoding-challenge/530/week-3/3300/)

Submission Detail
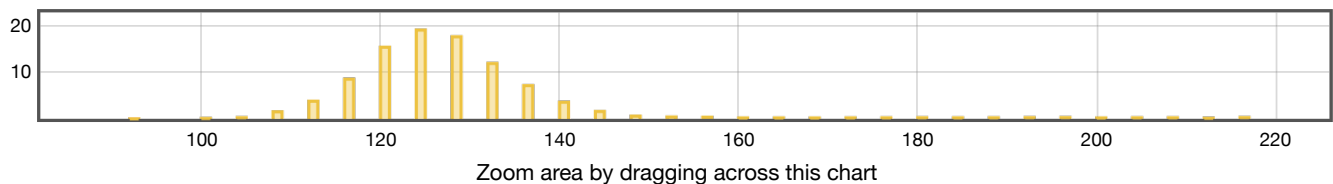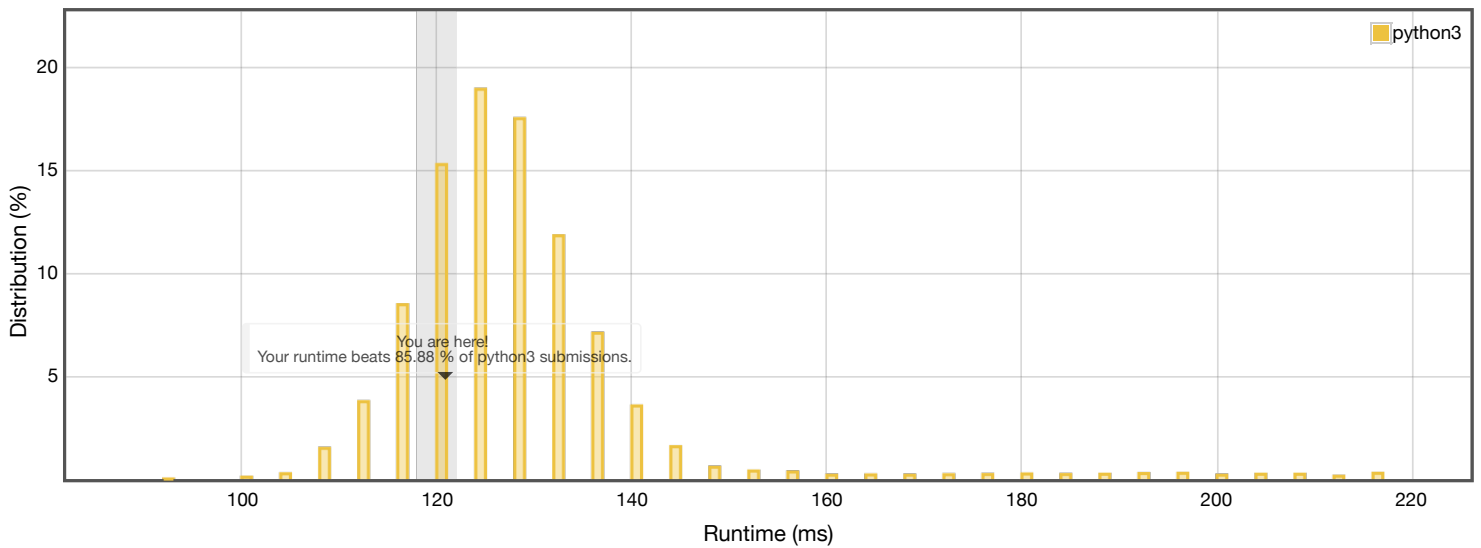
18 / 18 test cases passed.
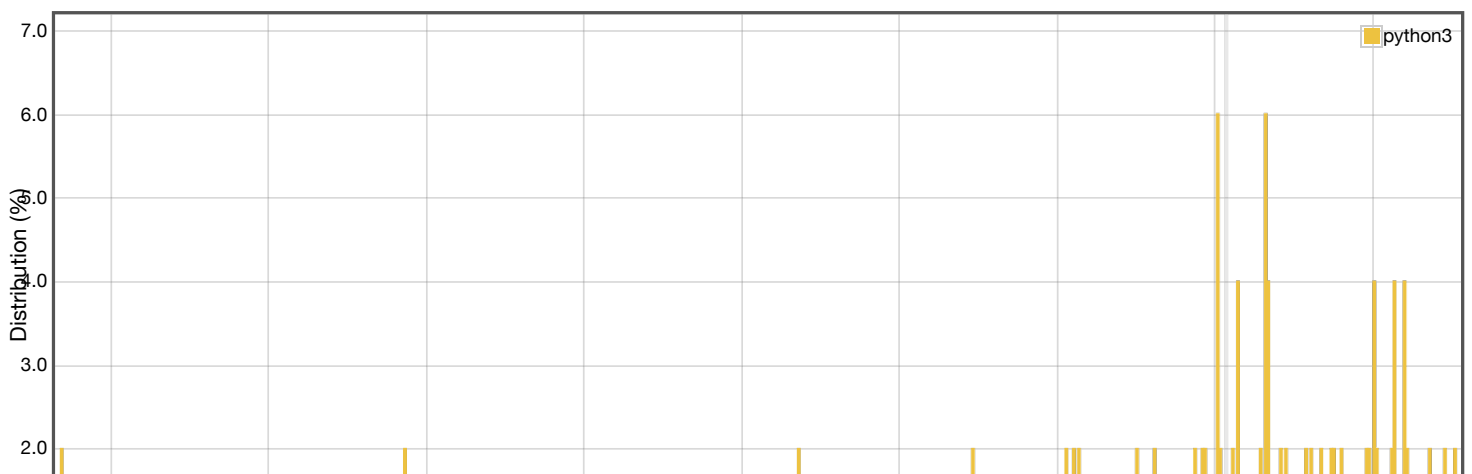
Runtime: **120 ms**
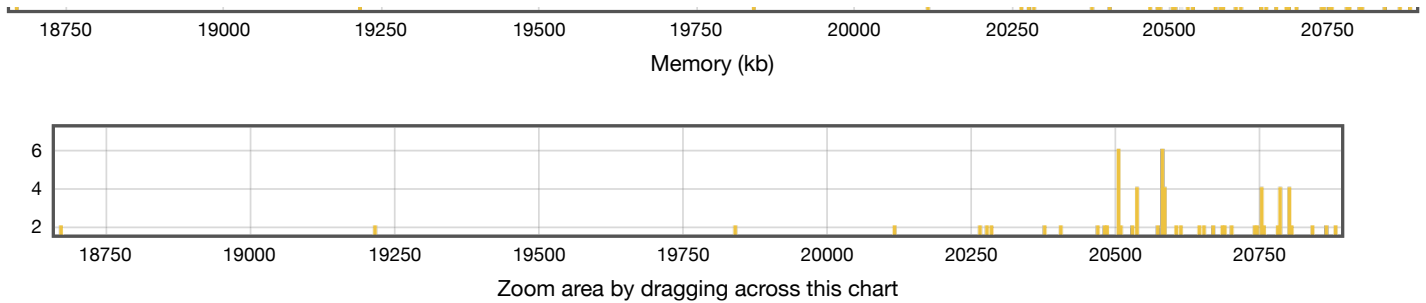Memory Usage: **20.5 MB**

Status: **Accepted**

Submitted: **0 minutes ago**

Accepted Solutions Runtime Distribution

Accepted Solutions Memory Distribution

Memory (kb)

Zoom area by dragging across this chart

Invite friends to challenge **Product of Array Except Self**

◀ **19**

Submitted Code: 0 minutes ago

Language: python3

Edit Code

```python
class Solution:
    def productExceptSelf(self, nums: List[int]) -> List[int]:
        products = []
        product = 1

        # Initialize product vector with product of previous elements
        for i in range(len(nums)):
            products.append(product)
            product *= nums[i]

        product = 1

        # Compute product with elements after nums[i]
        for i in range(len(nums) - 1, -1, -1):
            products[i] *= product
            product *= nums[i]

        return products
```

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