Product of Array Except Self

Submission Detail

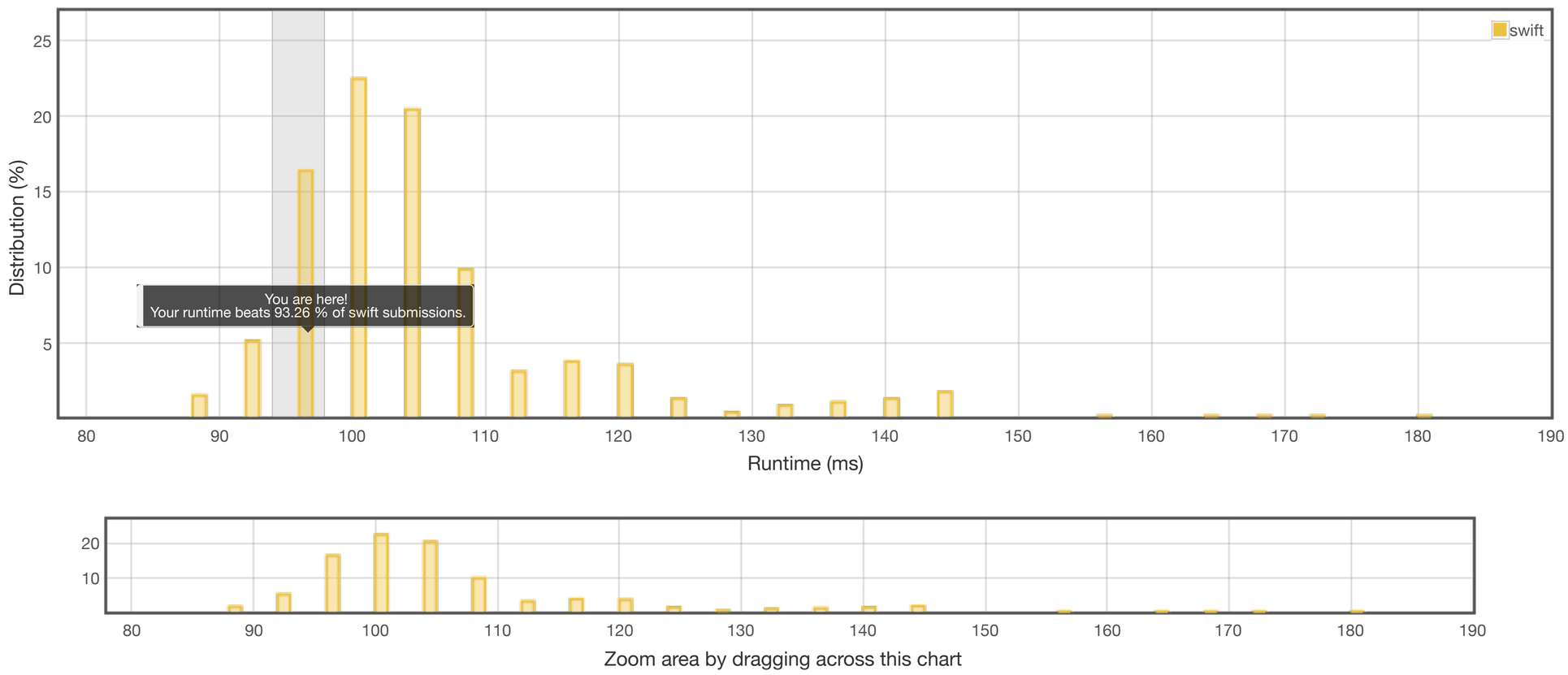
18 / 18 test cases passed.

Runtime: **96 ms**
Memory Usage: **24.6 MB**

Status: Accepted

Submitted: **0 minutes ago**

Accepted Solutions Runtime Distribution



Accepted Solutions Memory Distribution

Sorry. We do not have enough accepted submissions to show distribution chart.

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

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Submitted Code: 0 minutes ago

Language: swift

Edit Code

```swift
class Solution {

    func productExceptSelf(_ nums: [Int]) -> [Int] {
        return productExceptSelfWithDivision(nums)
        //return productExceptSelfDoublyNestedLoop(nums)
    }

    func productExceptSelfWithDivision(_ nums: [Int]) -> [Int] {
        var numZeros = 0
        var idx = 0
        var idxForZero = -1
        while numZeros < 2 && idx < nums.count {
            if nums[idx] == 0 {
                numZeros += 1
                idxForZero = idx
            }
            idx += 1
        }

        if numZeros == 2 {
            return Array.init(repeating: 0, count: nums.count)
        }

        if numZeros == 1 {
            var output = Array.init(repeating: 0, count: nums.count)
            output[idxForZero] = nums[0..<idxForZero].reduce(1,*) * nums[(idxForZero+1)...].reduce(1,*)
            return output
        }

        let totalProduct = nums.reduce(1, *)
        return nums.map { Int(Float(totalProduct)/Float($0)) }
    }
}
```

Back to problem

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