Our Solution(s) Run Code

Solution 1

```swift
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class Program {
    // Best: O(nlog(n)) time | O(log(n)) space
    // Average: O(nlog(n)) time | O(log(n)) space
    // Worst: O(n^2) time | O(log(n)) space
    func quickSort(_ array: inout [Int]) -> [Int] {
        quickSortHelper(&array, 0, array.count - 1)
        return array
    }

    func quickSortHelper(_ array: inout [Int], _ startIndex: Int, _ en
        if startIndex >= endIndex {
            return
        }

        let pivotIndex = startIndex
        var leftPointer = startIndex + 1
        var rightPointer = endIndex

        while leftPointer <= rightPointer {
            if array[leftPointer] > array[pivotIndex], array[rightPoin
                swap(&array, leftPointer, rightPointer)
            }

            if array[leftPointer] <= array[pivotIndex] {
                leftPointer += 1
            }

            if array[rightPointer] >= array[pivotIndex] {
                rightPointer -= 1
            }
        }
```

Your Solutions Run Code

Solution 1 Solution 2 Solution 3

```swift
class Program {
    func quickSort(_ array: inout [Int]) -> [Int] {
        // Write your code here.
        return []
    }
}

```

Our Tests

Custom Output Submit Code

Run or submit code when you're ready.