Our Solution(s) Run Code

Solution 1

```swift
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class Program {
    // Best: O(n) time | O(1) space
    // Average: O(n) time | O(1) space
    // Worst: O(n^2) time | O(1) space
    func quickSelect(_ array: [Int], _ k: Int) -> Int? {
        let position = k - 1
        var startIndex = 0
        var endIndex = array.count - 1
        var variableArray = array

        return quickSelectHelper(&variableArray, &startIndex, &endInde
    }

    func quickSelectHelper(_ array: inout [Int], _ startIndex: inout I
        while true {
            let pivotIndex = startIndex
            var leftPointer = startIndex + 1
            var rightPointer = endIndex

            while leftPointer <= rightPointer {
                if array[leftPointer] > array[pivotIndex], array[right
                    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 quickSelect(_ array: [Int], _ k: Int) -> Int? {
        // Write your code here.
        return -1
    }
}

```

Our Tests

Custom Output Submit Code

Run or submit code when you're ready.