

PromptScratchpadOur Solution(s)Video Explanation

Run Code

Solution 1

```
1 // Copyright © 2020 AlgoExpert, LLC. All rights reserved.
2
3 class Program {
4     // O(n) time | O(1) space
5     func kadanesAlgorithm(array: [Int]) -> Int {
6         if array.count > 0 {
7             var maxEndingHere = array.first
8             var maxSoFar = array.first
9
10            for i in 1 ..< array.count {
11                let currentNumber = array[i]
12
13                maxEndingHere = max(currentNumber, currentNumber + maxEndingHere!)
14                maxSoFar = max(maxSoFar!, maxEndingHere!)
15            }
16
17            return maxSoFar!
18        } else {
19            return -1
20        }
21    }
22 }
23
```