

Prompt	Scratchpad	Our Solution(s)	Video Explanation	Run Code	Your Solutions	Run Code
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Solution 1

```
1 // Copyright © 2020 AlgoExpert, LLC. All rights reserved.
2
3 class Program {
4     // Best: O(n^2) time | O(1) space
5     // Average: O(n^2) time | O(1) space
6     // Worst: O(n^2) time | O(1) space
7     func selectionSort(array: inout [Int]) -> [Int] {
8         var currentIndex = 0
9
10        while currentIndex < array.count - 1 {
11            var indexOfSmallest = currentIndex
12
13            for i in currentIndex + 1 ..< array.count {
14                if array[indexOfSmallest] > array[i] {
15                    indexOfSmallest = i
16                }
17            }
18
19            swapHelper(currentIndex, indexOfSmallest, &array)
20            currentIndex = currentIndex + 1
21        }
22
23        return array
24    }
25
26    func swapHelper(_ firstIndex: Int, _ secondIndex: Int, _ array: inout [Int]) {
27        let temp = array[secondIndex]
28
29        array[secondIndex] = array[firstIndex]
30        array[firstIndex] = temp
31    }
32 }
33
```

Solution 1

Solution 2

Solution 3

```
1 class Program {
2     func selectionSort(array: inout [Int]) -> [Int] {
3         // Write your code here.
4         return []
5     }
6 }
7
```

