

PromptScratchpadOur Solution(s)Video ExplanationRun Code

Solution 1

```
1 // Copyright © 2020 AlgoExpert, LLC. All rights reserved.
2
3 class Program {
4     // O(nd) time | O(n) space
5     func minimumNumberOfCoinsForChange(target: Int, denominations: [Int]) -> Int {
6         var numberOfCoins = Array(repeating: Int(Int16.max), count: target + 1)
7         numberOfCoins[0] = 0
8
9         for denomination in denominations {
10             for amount in 0 ..< numberOfCoins.count {
11                 if denomination <= amount {
12                     numberOfCoins[amount] = min(numberOfCoins[amount], 1 + numberOfCoins[am
13                 }
14             }
15         }
16
17         return numberOfCoins[target] != Int(Int16.max) ? numberOfCoins[target] : -1
18     }
19 }
20
```

Your SolutionsRun Code

Solution 1Solution 2Solution 3

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

Custom OutputRaw OutputSubmit Code

Run or submit code when you're ready.