

Solution 1

```
1 // Copyright © 2020 AlgoExpert, LLC. All rights reserved.
2
3 public class Program {
4     // O(nd) time | O(n) space
5     public static int NumberOfWaysToMakeChange(int n, int[] denoms) {
6         int[] ways = new int[n + 1];
7         ways[0] = 1;
8         foreach (int denom in denoms) {
9             for (int amount = 1; amount < n + 1; amount++) {
10                 if (denom <= amount) {
11                     ways[amount] += ways[amount - denom];
12                 }
13             }
14         }
15         return ways[n];
16     }
17 }
18
```

Solution 1   Solution 2   Solution 3

```
1 public class Program {
2     public static int NumberOfWaysToMakeChange(int n, int[] denoms) {
3         // Write your code here.
4         return -1;
5     }
6 }
7
```

**Run or submit code when you're ready.**

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