

Solution 1

```
1 // Copyright © 2020 AlgoExpert, LLC. All rights reserved.
2
3 // O(nd) time | O(n) space
4 function numberOfWaysToMakeChange(n, denoms) {
5   const ways = new Array(n + 1).fill(0);
6   ways[0] = 1;
7   for (let denom of denoms) {
8     for (let amount = 1; amount < n + 1; amount++) {
9       if (denom <= amount) {
10         ways[amount] += ways[amount - denom];
11       }
12     }
13   }
14   return ways[n];
15 }
16
17 exports.numberOfWaysToMakeChange = numberOfWaysToMakeChange;
18
```

Solution 1

Solution 2

Solution 3

```
1 function numberOfWaysToMakeChange(n, denoms) {
2   // Write your code here.
3 }
4
5 // Do not edit the line below.
6 exports.numberOfWaysToMakeChange = numberOfWaysToMakeChange;
7
```

Run or submit code when you're ready.