Our Solution(s)

Run Code

Your Solutions

Run Code

```
Solution 1
 1 // Copyright © 2020 AlgoExpert, LLC. All rights reserved.
   #include <vector>
4 #include <climits>
 5 using namespace std;
   // O(nd) time | O(n) space
 8 int minNumberOfCoinsForChange(int n, vector<int> denoms) {
9
     vector<int> numOfCoins(n + 1, INT_MAX);
10
     numOfCoins[0] = 0;
11
     int toCompare = 0;
12
     for (int denom : denoms) {
13
       for (int amount = 0; amount < numOfCoins.size(); amount++) </pre>
         if (denom <= amount) {</pre>
14
15
            if (numOfCoins[amount - denom] == INT_MAX) {
16
              toCompare = numOfCoins[amount - denom];
17
            } else {
18
              toCompare = numOfCoins[amount - denom] + 1;
19
20
            numOfCoins[amount] = min(numOfCoins[amount], toCompare)
21
          }
23
     return numOfCoins[n] != INT_MAX ? numOfCoins[n] : -1;
24
25 }
26
```

```
Solution 1  Solution 2  Solution 3

1  #include <vector>
2  using namespace std;
3

4  int minNumberOfCoinsForChange(int n, vector<int> denoms) {
5    // Write your code here.
6    return -1;
7  }
8
```

