Our Solution(s) Run Code

Solution 1

```
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using System;

public class Program {
  // O(nd) time | O(n) space
  public static int MinNumberOfCoinsForChange(int n, int[] denoms) {
    int[] numOfCoins = new int[n + 1];
    Array.Fill(numOfCoins, Int32.MaxValue);
    numOfCoins[0] = 0;
    int toCompare = 0;
    foreach (int denom in denoms) {
      for (int amount = 0; amount < numOfCoins.Length; amount++) {
        if (denom <= amount) {
          if (numOfCoins[amount - denom] == Int32.MaxValue) {
            toCompare = numOfCoins[amount - denom];
          } else {
            toCompare = numOfCoins[amount - denom] + 1;
          }
          numOfCoins[amount] =
            Math.Min(numOfCoins[amount], toCompare);
        }
      }
    }
    return numOfCoins[n] != Int32.MaxValue ? numOfCoins[n] : -1;
  }
}

```

Your Solutions Run Code

Solution 1 Solution 2 Solution 3

```
public class Program {
  public static int MinNumberOfCoinsForChange(int n, int[] denoms) {
    // Write your code here.
    return -1;
  }
}

```

Custom Output Raw Output Submit Code

Run or submit code when you're ready.