1. ****Python Program for Coin Change.****

**def count(S, m, n):**

**table = [[0 for x in range(m)] for x in range(n+1)]**

**for i in range(m):**

**table[0][i] = 1**

**for i in range(1, n+1):**

**for j in range(m):**

**x = table[i - S[j]][j] if i-S[j] >= 0 else 0**

**y = table[i][j-1] if j >= 1 else 0**

**table[i][j] = x + y**

**return table[n][m-1]**

**arr = [1, 2, 3]**

**m = len(arr)**

**n = 4**

**print(count(arr, m, n))**

**OUTPUT**

