Coin sums

Let us consider all the existing coins in the Euro system:

1c, 2c, 5c, 10c, 20c, 50c, 1€ and 2€.

It is possible to make 2€ in the following way:

\[ 1 \times 1\€ + 1 \times 50c + 2 \times 20c + 1 \times 5c + 1 \times 2c + 3 \times 1c \]

How many different ways can 2€ be made using any number of coins?

Write a program that, given a number \( n \) of Euro cents, calculates the different ways to make that quantity using Euro coins.

(from Project Euler #31)