

## Making change with two coins

We can initialize the first 12 values using what we figured out before (i.e., for  $x = 1, 2, \dots, 12$  we already know the answers).

Now suppose we have figured out the correct values for  $Change[x]$  for all  $x = 1, 2, \dots, N$ .

Suppose we *can* make change for  $x$  cents. What would that look like, given that  $x > 12$ ?

- ▶ Observation: The change would have to have at least one 5 cent coin or at least one 7 cent coin.