

← course home (/table-of-contents#section_dynamic-programming-recursion_question_coin)

Your quirky boss collects rare, old coins...

They found out you're a programmer and asked you to solve something they've been wondering for a long time.

Write a function that, given:

- 1. an amount of money
- 2. a list of coin denominations

computes the number of ways to make the amount of money with coins of the available denominations.

Example: for amount=4 (4¢) and denominations=[1, 2, 3] (1¢, 2¢ and 3¢), your program would output 4—the number of ways to make 4¢ with those denominations:

- 1. 1¢, 1¢, 1¢, 1¢
- 2. 1¢, 1¢, 2¢
- 3. 1¢, 3¢
- 4. 2¢, 2¢

Want more coding interview help?

Check out **interviewcake.com** for more advice, guides, and practice questions.