You are given coins of different denominations and a total amount of money. Write a function to compute the number of combinations that make up that amount. You may assume that you have infinite number of each kind of coin.

**Example 1:**

**Input:** amount = 5, coins = [1, 2, 5]

**Output:** 4

**Explanation:** there are four ways to make up the amount:

5=5

5=2+2+1

5=2+1+1+1

5=1+1+1+1+1

**Example 2:**

**Input:** amount = 3, coins = [2]

**Output:** 0

**Explanation:** the amount of 3 cannot be made up just with coins of 2.

**Example 3:**

**Input:** amount = 10, coins = [10]

**Output:** 1

**Note:**

You can assume that

* 0 <= amount <= 5000
* 1 <= coin <= 5000
* the number of coins is less than 500
* the answer is guaranteed to fit into signed 32-bit integer