Coin Change Problem.

You work at a bank and want to impress your boss by showing him how smart you are. You are given coins of different denominations and a total amount of money *amount*. Write a program to compute the fewest number of coins that you need to make up that amount. If that amount of money cannot be made up by any combination of the coins, return -1.

Input:

first line of input will be your goal amount.
second line of code will be the value of the coins you have.

Output:

The least amount of coins to get to the amount specified.

Example 1:

input:

11

1 2 5

output:

3 (5+5+1) < do not need to print this, just the amount of coins.

Example 2:

input:

3

2

output:

-1

Note: you may assume you have infinite amount of each coin and no numbers will be negative since we are dealing with money.