## **Cash Flow**

Let's represent cash using a dictionary (dict) where the keys are the values of coins or banknotes, and the values are the quantities of coins or banknotes. For example, {100: 5, 50: 2, 10: 5, 1: 15} represents 5 one-hundred-baht notes, 2 fifty-baht notes, 5 ten-baht coins, and 15 one-baht coins. Write the following functions (see the example below):

- total (pocket) returns the total amount of cash in pocket.
- take (pocket, money) adds the cash from money to pocket (both are dict containing money).
- pay (pocket, amt) deducts the amount amt (an integer) from pocket. The function will return a dict representing the cash paid. If the exact amount cannot be paid, return an empty dict.

When paying cash, prioritize taking the highest value coins or bills from the pocket that can cover the payment. For example, if **pocket** = {100: 5, 50: 2, 10: 5, 1: 15} and the required payment is 57, you would take **one 50-baht bill** and **seven 1-baht coins**.

```
def total(pocket):
    def take(pocket, money_in):
    def pay(pocket, amt):

# The following command must be included when submiting to Grader exec(input().strip())
```

## Input

Python commands to test function behavior.

## Output

Result from executing input Python commands.

## Example

Input (from keyboard)	Output (on screen)
p={100:2, 50:2, 5:2, 1:2};print(total(p))	312
p={100:5}; take(p,{100:2, 1:3}); print(p)	{100: 7, 1: 3}
p={100:5}; take(p,{100:0, 1:0}); print(p)	{100: 5, 1: 0}
p={10:5, 1:7};print(pay(p, 12));print(p)	{10: 1, 1: 2} {10: 4, 1: 5}
p={10:5, 1:7};print(pay(p, 18));print(p)	{} {10: 5, 1: 7}
p={10:5, 1:7};print(pay(p, 100));print(p)	{} {10: 5, 1: 7}
p={10:5, 1:7};print(pay(p, 57));print(p)	{10: 5, 1: 7} {10: 0, 1: 0}