

Problem R: Vending Machine

Input: vending.in

Output: vending.out

The items sold by a vending machine sell for a whole number of dollars. The vending machine returns change in the form of one-dollar coins, five-dollar bills, and ten-dollar bills. For any particular purchase, the number of one-dollar coins returned is less than 5; and the number of five-dollar bills is less than 2.

Input

Each line of input contains two non-negative integers, the purchase price of an item and the amount entered into the vending machine by the customer. The two integers are separated by one blank space. You can assume that the amount entered into the vending machine is greater than the purchase price. The input is terminated by end-of-file.

Output

Each line of input will give rise to one line of output, consisting of the amount of the change, and the number of ten-dollar and five-dollar bills and one-dollar coins returned by the vending machine for the particular purchase. The output format is illustrated by the sample output. Consecutive tokens on the output line are separated by exactly one blank space.

Sample input

```
72 100
37 200
5 50
```

Output for sample input

```
28 = 2 * 10 + 1 * 5 + 3 * 1
163 = 16 * 10 + 0 * 5 + 3 * 1
45 = 4 * 10 + 1 * 5 + 0 * 1
```