

Problem LEMONADE: Lemonade Shop

Lisa and her friend Ralph have opened a lemonade store. Because of Lisa's popularity and Ralph's ... ahm ... because of Lisa's popularity people from Springfield want to try the delicious lemonade they offer. As Lisa is the only person who knows how to make the perfect lemonade, she has to be in the kitchen and has to produce more and more lemonade. This leaves the selling job to Ralph. As Ralph isn't smart at all, he has great difficulties giving people the right change. He already uses a calculator to determine the amount of money he must give to the customer, but determining the number of coins is way beyond his abilities. The huge amount of different coins confuses him. There are 2 Euro, 1 Euro, 50 Cent, 20 Cent, 10 Cent, 5 Cent, 2 Cent and 1 Cent coins. You as a very good friend of Ralph have offered him to write a program that takes the amount of money Ralph must give back to the customer and calculates the number of coins Ralph must return in order to keep the number of returned coins minimal.

Input

There is one testcase per file. The testcase starts with the number n of lines on a single line. Each of the following n lines contains an amount of money, Euro and Cent separated by a '.'. You can safely assume that no one in Springfield (not even Mr. Burns) owns more than 20 Million Euros.

Output

For each of the n lines, print one line of output. Write the change for each customer (identified by its unique customer id) to a single line. See the sample output for details.

Sample Input 1 Sample Output 1

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5           Change for customer 1: 3x200 1x100 0x50 1x20 0x10 0x5 1x2 1x1
7.23       Change for customer 2: 1x200 0x100 1x50 0x20 0x10 1x5 0x2 1x1
2.56       Change for customer 3: 6x200 1x100 1x50 2x20 0x10 0x5 0x2 0x1
13.90      Change for customer 4: 1x200 0x100 0x50 0x20 0x10 0x5 0x2 0x1
2.00       Change for customer 5: 0x200 1x100 0x50 0x20 0x10 0x5 0x2 1x1
1.01
```