# UCF "Practice" Local Contest — Aug 27, 2016

## Tip to be Palindrome

*filename:* `tipit`
(*Difficulty Level:* `Easy`)

One of the cool UCF CS alumni is Dr. Greg, The Palindrome Tipper. A palindrome is a string that reads the same forward and backward, e.g., madam, abba, 3, 44, 525.

One cool thing about Dr. Greg is that he leaves at least 20% tip when he eats out, e.g., if the meal is $30, Dr. Greg leaves $6 (30*.20) for tip. If the tip (20%) is not a whole dollar amount, he rounds up the tip to make it a whole number. For example, if the meal is $12, a 20% tip would be $2.40 (12*0.20) but Dr. Greg would leave $3 for tip.

Another cool thing about Dr. Greg is that he is a palindrome guru. If his total bill (meal plus tip) is not a palindrome, he will increase the total (by adding to the tip) to make the total a palindrome. He will, of course, add the minimum needed to make the total a palindrome.

**The Problem:**

Given Dr. Greg's meal cost, your program should determine the tip amount for him (according to his rules) and the total bill.

**The Input:**

The first input line contains a positive integer, *n*, indicating the number of times Dr. Greg ate out. The meal costs are on the following *n* input lines, one per line. Each input will contain an integer between 5 and 10000 (inclusive).

**The Output:**

At the beginning of each test case, output "`Input cost: c`" where `c` is the input cost. Then, on the next output line, print the tip amount and the total bill, separated by one space. Leave a blank line after the output for each test case.

**Sample Input:**

```
2
12
84
```

**Sample Output:**

```
Input cost: 12
10 22

Input cost: 84
17 101
```