Problem 29: Mobile Miser

Difficulty: Easy

Originally Published: Code Quest 2016

Problem Background

Nobody likes a miser! Whether you are riding in a cab or eating out, tipping is something that service industry workers count on for their livelihood. However, sometimes people do the math wrong in their heads, and workers that did a good job get stuck with a tip that's too little. Your task is to help stop this bad mental math epidemic.

Problem Description

Your program will read a file with various bill amounts from fine dining restaurants and calculate the gratuity as a percentage of the bill. As is customary in U.S. restaurants, gratuity typically ranges from 15%-20% of the bill, so your program needs to calculate the gratuities at the 15%, 18% and 20% levels (rounded to the nearest cent) and display this in the output. You will get no points for claiming bad service and leaving a 0% tip on the bill!

Sample Input

The first line of your program's input, received from the standard input channel, will contain a positive integer representing the number of test cases. Each test case will include a single line containing the amount of the bill, formatted with a leading dollar sign ($) and two decimal places.

```
4
$73.26
$16.38
$89.34
$287.36
```

Sample Output

For each test case, your program should print four lines of text, as follows:

- The phrase "Total of the bill: ", followed by the bill amount, as provided in the input
- The phrase "15% = $", followed by the calculated 15% tip.
- The phrase "18% = $", followed by the calculated 18% tip.
- The phrase "20% = $", followed by the calculated 20% tip.

For all values, round to two decimal places and include any trailing zeroes.

```
Total of the bill: $73.26
15% = $10.99
18% = $13.19
20% = $14.65
Total of the bill: $16.38
15% = $2.46
18% = $2.95
20% = $3.28
Total of the bill: $89.34
15% = $13.40
18% = $16.08
20% = $17.87
Total of the bill: $287.36
15% = $43.10
18% = $51.72
20% = $57.47
```