

### 33. 11984 - A Change in Thermal Unit

Time limit: 1.000 seconds

Measuring temperature and temperature differences are common task in many research and applications. Unfortunately, there exists more than one unit of measuring temperatures. This introduces a lot of confusion at times. Two popular units of measurements are Celsius(**C**) and Fahrenheit (**F**). The conversion of **F** from **C** is given by the formula:

$$\mathbf{F} = \frac{9}{5} \mathbf{C} + 32$$

In this problem, you will be given an initial temperature in **C** and an increase in temperature in **F**. You would have to calculate the new temperature in **C**.

#### Input

Input starts with an integer **T** ( $\leq 100$ ), denoting the number of test cases.

Each case contains a line with two integers **C** and **d** ( $0 \leq \mathbf{C}, \mathbf{d} \leq 100$ ), where **C** represents the initial temperature in Celsius and **d** represents the increase in temperature in Fahrenheit.

#### Output

For each case, print the case number and the new temperature in Celsius after rounding it to two digits after the decimal point.

Sample Input	Output for Sample Input
2	Case 1: 100.00
100 0	Case 2: 55.56
0 100	

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