## Make It Simple

$4 / 8$ can be simplified to $2 / 4$ and $2 / 4$ can be simplified to $1 / 2$. In this problem you will be given a rational number $X / Y$ and your task is to make it in its simplest form. For example $1 / 2$ is the simplest form of $4 / 8$.

## Input

The first line of input will be the number of test cases. Each case have one line on the form $X / Y$ where $X$ is the numerator and $Y$ is the denominator, $1<=X<=Y<=1,000,000$.

## Output

For each test case print "Case $C$ : $A / B$ " without quotes where $C$ is the case number starting with 1 and $A / B$ is the simplest form of $X / Y$.

## Example

Input:
3
4/8
2/5
7/21

## Output:

Case 1: $1 / 2$
Case 2: 2/5
Case 3: 1/3

