## CONVERSIONS

You are given two positive integers $P$ and $Q$. What is the value of $P / Q$ ? Isn't that a very easy problem? We know that solving a very easy problem isn't enjoyable much. Let's make the problem a little harder. What if given you the answer of $P / Q$ and asked to retrieve the values of P and Q? Can you do it? Let's try!!!

## Input

First line contains an integer T-number of test cases. Following T lines contains a floating point number.

## Output

For each case output in the following format:
Case \#X: P/Q
Where " $X$ " is the case number starting form 1." $P$ " and " $Q$ " are the values described above. Print " $P$ " and " $Q$ " in their reduced form (Greatest Common Divisor of "P" and "Q" will be 1).

## Example

Input:
5
0.50
0.5
123.123
0.66655
0.7

Output:
Case \#1: 1/2
Case \#2: 1/2
Case \#3: 123123/1000
Case \#4: 13331/20000
Case \#5: 7/10

