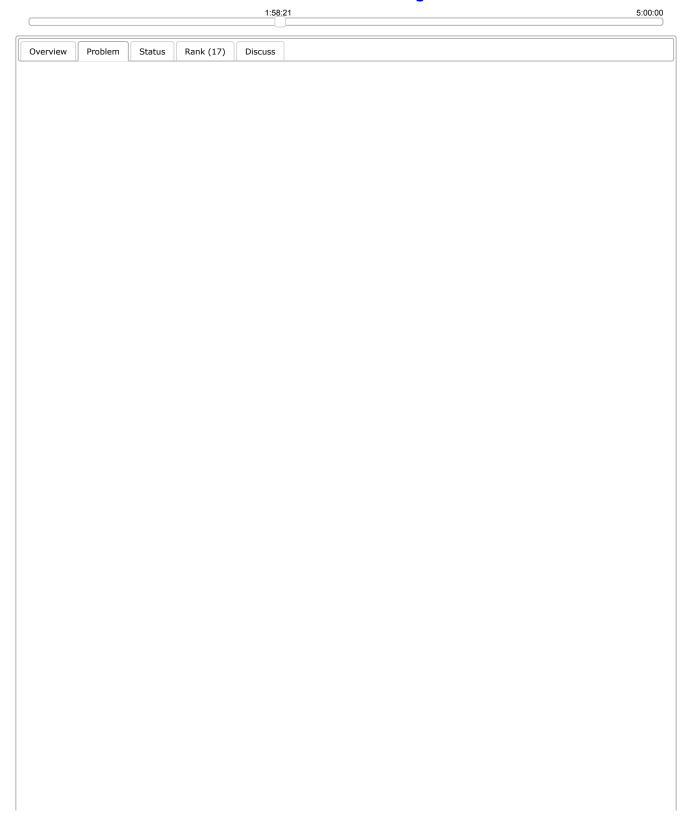
HOME PROBLEM STATUS CONTEST → Abreto → LOGOUT

## **UESTC 2016 Summer Training #13 Div.2**



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A B C D E F G H I
A - A
Time Limit:1000MS Memory Limit:262144KB 64bit IO Format:%I64d & %I64u
Submit Status
Description
standard input/output
A repeating decimal, also called a recurring decimal, is a number whose decimal representation eventually becomes periodic (i.e., the same sequence of digits repeats indefinitely). The repeating portion of a decimal expansion is conventionally denoted within a pair of brackets so, for example
1/6 = 0.16666666 = 0.1(6) = 0.1666(6) = 0.166(66)
Both $0.1(6)$ or $0.1666(6)$ or $0.166(66)$ are correct representation of $1/6$ . Given a recurring decimal representation, your task is to find an irreducible fraction that has that representation.
Input
The first line of input contains the number of tests – $T(T \le 100)$ . Then $T$ tests follow. Each test is printed in a line as a string whose length does not exceed 15. It is guaranteed to be a meaningful representation of a positive fraction.
Output
For each test, print the result in one line in the format Case #x: a/b
Sample Input
Input
4 0.125
0.(142857)

Output

0.1(6) .2

Case #1: 1/8 Case #2: 1/7 Case #3: 1/6 Case #4: 1/5

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