## Another Continuous Fractions Problem

The problem description is the same as the problem CFRAC and CFRAC2.

## Input \& Output

Multiple test cases, a single line with a single uppercase character $C$ indicates the end of the input. The number of test cases will be less than 1000.

For each test case:
The first line of the input contains a single uppercase character A or B.A denotes that the input following character A and output format of this test case is the same as problem CFRAC, otherwise the input following character B and output format of this test case is the same as problem CFRAC2. But please pay attention that: the width and the height of the image after the character B will not appear in the input; the original fraction will not appear in the output of the test case of type A.

The example will make everything clear.

## Example

## Input:

A
7534
B
$\qquad$
$\qquad$
2.+. .1...
....4.+. $\qquad$
$\qquad$ 1..
$\qquad$
$\qquad$

C

Output:
Case 1:
..........1......
2.+.------------
............1...
....4.+.
. 1.
........1.+.-----
................ 1
............5.+.-

Case 2:
7534

