## Fractions on Tree ( reloaded !)

A fraction tree is an infinite binary tree defined as follows:

1. Every node of tree contains a fraction.
2. Root of tree contains the fraction $1 / 1$.
3. Any node with fraction $\mathrm{i} / \mathrm{j}$ has two children: left child with fraction $\mathrm{i} /(\mathrm{i}+\mathrm{j})$ and right child with fraction $(i+j) / j$.

For example, fraction tree up to 3 levels is as shown:


We number the nodes according to increasing levels (root is at level 1) and at any same level, nodes are numbered from left to right. So first node holds the fraction $1 / 1$, second one holds $1 / 2$, third one holds $2 / 1$ fourth one holds $1 / 3$ and so on.

Your task is simple, as always! Given two numbers $a$ and $b$, you are to find the product of fractions at all those nodes whose number is between $a$ and $b$ both inclusive.

## Input

Every line of the input contains two numbers $a$ and $b$ separated by a space. You are to find the product of all fractions which are at node having number between $a$ and $b$ both inclusive. Input file terminates with a 00 which is not to be processed.

## Output

For each input, print numerator and denominator of the lowest form of the fraction separated by a /. Output of each case to be on separate lines.

## Example

## Input:

11
12
24
00

## Output:

1/1
1/2

Constraints
$1<=T<=30000$
$1<=a<=b<=10^{\wedge} 10$

