

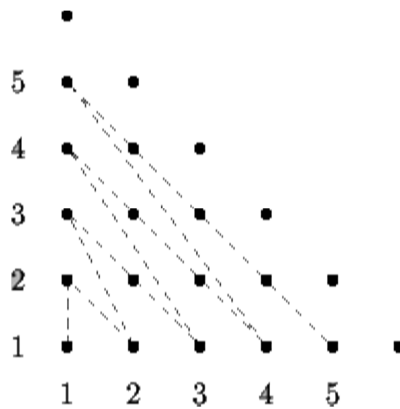
## 880 - Cantor Fractions

Time limit: 3.000 seconds

### Cantor Fractions

#### Background

In the late XIXth century the German mathematician George Cantor argued that the set of positive fractions  $\mathbf{Q}^+$  is equipotent to the set of positive integers  $\mathbf{N}$ , meaning that they are both infinite, but of the same class. To justify this, he exhibited a mapping from  $\mathbf{N}$  to  $\mathbf{Q}^+$  that is onto. This mapping is just *traversal* of the  $\mathbf{N} \times \mathbf{N}$  plane that covers all the pairs:



The first fractions in the Cantor mapping are:

$$\frac{1}{1}, \frac{2}{1}, \frac{1}{2}, \frac{3}{1}, \frac{2}{2}, \frac{1}{3}, \dots$$

#### Problem

Write a program that finds the  $i$ -th Cantor fraction following the mapping outlined above.

#### Input

The inputs consists of several lines with a positive integer number  $i$  each one.

#### Output

The output consists of a line per input case, that contains the  $i$ -th fraction, with numerator and denominator separated by a slash (/). The fraction should **not** be in the most simple form.

#### Sample Input

6

#### Sample Output

1/3