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1695. Count on Canton

Time Limit: 1.0 Seconds   Memory Limit: 65536K
Total Runs: 7535   Accepted Runs: 2910

One of the famous proofs of modern mathematics is Georg Cantor's demonstration that the set of rational numbers is enumerable. The proof works by using an explicit enumeration of rational numbers as shown in the diagram below.

1/1 1/2 1/3 1/4 1/5 ...
2/1 2/2 2/3 2/4
3/1 3/2 3/3
4/1 4/2
5/1

In the above diagram, the first term is 1/1, the second term is 1/2, the third term is 2/1, the fourth term is 3/1, the fifth term is 2/2, and so on.

Input

The input list contains a single number per line and will be terminated by end-of-file.

Output

You are to write a program that will read a list of numbers in the range from 1 to 10^7 and will print for each number the corresponding term in Cantor's enumeration as given below.

Sample Input

```
3
14
7
```

Sample Output

```
TERM 3 IS 2/1
TERM 14 IS 2/4
TERM 7 IS 1/4
```

Source: *Southeastern European 2004*

Submit   List   Runs   Forum   Statistics

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Maintance:Fxz. Developer: SuperHacker, G.D.Retop, Fxz