Fractions Again?!

Extracted from: UVa 10976
Source filename: fractions.py
Time limit: 3 second(s)

It is easy to see that for every fraction in the form $\frac{1}{k}(k > 0)$, we can always find two positive integers x and y, $x \geq y$, such that:

$$\frac{1}{k} = \frac{1}{x} + \frac{1}{y}$$

Now our question is: can you write a program that counts how many such pairs of x and y there are for any given k?

Input

Input contains no more than 100 lines, each giving a value of k $(0 < k \leq 10^4)$.

Output

For each k, output the number of corresponding (x, y) pairs, followed by a sorted list of the values of x and y, as shown in the sample output.

Sample Input	Sample Output
2 12	2 1/2 = 1/6 + 1/3 1/2 = 1/4 + 1/4 8 1/12 = 1/156 + 1/13 1/12 = 1/84 + 1/14 1/12 = 1/60 + 1/15 1/12 = 1/48 + 1/16 1/12 = 1/36 + 1/18 1/12 = 1/30 + 1/20 1/12 = 1/28 + 1/21 1/12 = 1/24 + 1/24