Write a program that finds and displays all pairs of 5-digit numbers that between them use the digits 0 through 9 once each, such that the first number divided by the second is equal to an integer $N$, where $2 \leq N \leq 79$. That is,

$$
\frac{a b c d e}{\text { fghij }}=N
$$

where each letter represents a different digit. The first digit of one of the numerals is allowed to be zero.

## Input

Each line of the input file consists of a valid integer $N$. An input of zero is to terminate the program.

## Output

Your program have to display ALL qualifying pairs of numerals, sorted by increasing numerator (and, of course, denominator).

Your output should be in the following general form:
xxxxx / $x x x x x=N$
$x x x x x / x x x x x=N$

In case there are no pairs of numerals satisfying the condition, you must write 'There are no solutions for $N$. . Separate the output for two different values of $N$ by a blank line.

## Sample Input

61
62
0

## Sample Output

There are no solutions for 61.
$79546 / 01283=62$
$94736 / 01528=62$

