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  $2 \le N \le 79$ . That is,

$$\frac{abcde}{fghij} = N$$

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 / xxxxx = N
xxxxx / xxxxx = 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

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## Sample Output

There are no solutions for 61.

79546 / 01283 = 62 94736 / 01528 = 62