4/20/2016 Beauty Square

Beauty Square

Math is fun, they said.

Two months ago, Mr. Oski was teaching his student about square number. Square number is a multiplication product of a number with the number itself. For example: 1 (1x1), 4 (2x2), 9 (3x3), ...

One day when he wrote down sequences of square number, he found something fun. What is the digit of the X position, and what is that square number.

Input

The first line contains an integer (1 <= T <= 100) denotes the number of cases. Each case contains an integer, (1 <= X <= 2.000.000).

Output

For each case, output the digit from the sequences and that square number in one line.

Sample Input

10
1
2
3
4
-
7
3
Θ
20
-0

Sample Output

```
1 1
4 4
9 9
1 16
6 16
```

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2 25
5 25
3 36
6 36
2 121