

# Long number

October 3, 2020

## Task

How many digits has the number created by writing all numbers from 1 to  $k$  one after another. For example if we take  $k=15$  the created number has 21 digit:

123456789101112131415

## Input

The first row contains one whole number representing the number of test cases. For each test case there is one row with the number  $k$  with  $1 \leq k \leq 10^{10}$

Example input

```
5
8
15
99
100
997
```

## Output

For each test case you need to output one row. Each row consists of the index of its respective test case followed by exactly one space and then number of digits asked.

Example output

```
1 8
2 21
3 189
4 192
5 2883
```