

$N$  is a random number, which for some reason, is at least two digits. John Doe, a nondescript man, performs an operation on  $N$ : he chops off the last digit to form a new number  $M$ , and then finds  $N - M$ . This excites him in a hard-to-justify way. He then tells you  $N - M$ . Thrilled by the fascinating back-story behind this number, you make it your life goal to figure out what  $N$  was.

By the way, John was later eaten by a tiger.

## Input

Input consists of multiple lines, one line per case. Each line contains a single positive integer between 10 and  $10^{18}$  inclusive, giving the value of  $N - M$ . Input is terminated by a line containing '0'.

## Output

For each case, print one line containing the possible values of  $N$  in sorted order. Separate consecutive numbers with a single space.

## Sample Input

```
18
0
```

## Sample Output

```
19 20
```