

10633 Rare Easy Problem

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

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18
0
```

Sample Output

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19 20
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