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## Dyslexic taxi driver

P48760\_en

Setzè Concurs de Programació de la UPC - Semifinal (2018-06-20)

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You arranged a taxi pick up, so you provided your address, which includes your street number  $n$ . However, the taxi driver is a bit dyslexic, and he will swap exactly two digits of  $n$ . What are the minimum and the maximum possible distances (measured as the number differences) between your real address and the place where the taxi driver will show?

### Input

Input consists of several cases, each one with an  $n$  between 10 and  $10^9$ .

### Output

For every  $n$ , print the minimum and the maximum possible distances. Take into account that the taxi driver can place a zero as starting digit.

### Sample input

```
37
99
902
2342
```

### Sample output

```
36 36
0 0
18 810
0 1980
```

### Problem information

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