

# The Next Palindrome

A positive integer is called a *palindrome* if its representation in the decimal system is the same when read from left to right and from right to left. For a given positive integer  $K$  of not more than 1000000 digits, write the value of the smallest palindrome larger than  $K$  to output. Numbers are always displayed without leading zeros.

## Input

The first line contains integer  $t$ , the number of test cases. Integers  $K$  are given in the next  $t$  lines.

## Output

For each  $K$ , output the smallest palindrome larger than  $K$ .

## Example

**Input:**

```
2
808
2133
```

**Output:**

```
818
2222
```

**Warning: large Input/Output data, be careful with certain languages**