

! Your_Typical *Programmer* **Coding Challenge**

CHALLENGE

Otto, Ada, Bob, and Eve are officers in the Palindrome Club, which they started in the year 2002. The members enjoy discovering palindromes, which are strings that read the same way forward and backwards such as the word “RADAR”. Numbers can be palindromes as well. For example, the number 121 reads the same forward and backwards. The members would like a program that, given a number as input, can find the smallest number greater than or equal to the input number that is a palindrome. Your task is to write that program.

INPUT:

The first line of the input contains an integer n that represents the number of data collections that follow where each data collection is on a single line. Each input line contains a single positive integer.

OUTPUT:

Your program should produce n lines of output (one for each data collection). The output for each data collection should be the smallest integer greater than or equal to the input number that is a palindrome.

ASSUMPTIONS:

The value of n will be between 1 and 100, inclusive. Each input number will have at least two digits. Each input number will be between 1 and 1,000,000,000, inclusive.

SAMPLE INPUT:

```
3
112
1500
13441
```

SAMPLE OUTPUT:

```
121
1551
13531
```