



Problem D. Nearest Palindrome

Input file: standard input
Output file: standard output
Time limit: 1s
Balloon color: Red

An integer n is called a palindrome, if it reads the same from left to right and from right to left. Given an integer n , find the smallest palindromic number bigger than n .

Input

The input contains a single integer n ($1 \leq n \leq 1000$).

Output

Print the smallest palindromic number bigger than n .

Example

| Sample Input 1 | Sample Output 1 |
|----------------|-----------------|
| 100 | 101 |