https://course.acciojob.com/idle?question=92116d12-80a4-4569-afdb-711d3290f4d9

- EASY
- Max Score: 30 Points

Beautiful Year

It seems like the year of 2013 came only yesterday. Do you know a curious fact? The year of 2013 is the first year after the old 1987 with only distinct digits.

Now you are suggested to solve the following problem: given a year number, find the minimum year number which is strictly larger than the given one and has only distinct digits.

Input Format

The single line contains integer y (1000 ≤ y ≤ 9000) — the year number

Output Format

Print a single integer — the minimum year number that is strictly larger than y and all its digits are distinct. It is guaranteed that the answer exists.

Example 1

Input

```
1987
```

Output

```
2013
```

Explanation

2013 has no digits repeated. All the numbers between 1987 and 2013 has at least one repeated digit.

Example 1

Input

```
2013
```

Output

```
2014
```

Explanation

2014 is just next to 2013 and has none of its digits repeated.

Constraints:

$1000 \leq y \leq 9000$

Topic Tags

- **Hashing**
- **Strings**

My code

// in java

```
import java.util.*;
import java.lang.*;
import java.io.*;

public class Main
{
	public static void main (String[] args) throws
java.lang.Exception
	{
		//your code here
	Scanner s=new Scanner(System.in);
	int n=s.nextInt();
	int k=1;
	while(k==1)
	 {
	  n=n+1;
	  int a=n/1000;
	  int b=n/100%10;
	  int c=n/10%10;
	  int d=n%10;
	  if(a!=b && a!=c && a!=d && b!=c && b!=d && c!=d)
	  {
	    System.out.print(n); k= 0;
	  }

	}

	}
}
```