https://course.acciojob.com/idle?question=2205fa65-d912-46fd-9527-2a35f8469596

- EASY
- Max Score: 30 Points

Maximum Swaps

You are given an integer N. You can swap any two digits of the number atmost once. Find the maximum number that can be made by doing so.

****NOTE: ** You need to complete the given function. The input and printing of output will be handled by the driver code.**

Input Format

The first line contains the number of test cases.

For each test case: You are given the value of N.

Output Format

For each test case return the max possible number.

Example 1

Input

```
1
312
```

Output

```
321
```

Explanation

321 is the max possible number with one swap.

Example 2

Input

```
1
7456
```

Output

```
7654
```

Explanation

It can be formed by swapping '4' at second position and '6' at last position.

Constraints

```
1 <= T <= 10
```

```
1 <= N <= 100000000
```

Topic Tags

- Strings
- Arrays

My code

```
// in java
import java.util.*;
import java.io.*;
import java.lang.*;
class Solution{
    static int MaxSwap(int num){
        // your code here
                int n=num;
                int digit=0;
                while(n>0)
                        {
                                digit++;
                                n/=10;
                        }
                int arr[]=new int[digit];
                n=num;
                for(int i=0;i<digit;i++)
                        {
                                arr[digit-i-1]=n%10;
                                n/=10;
                        }
                for(int i=0;i<digit-1;i++)
                        {
                                int max=digit-1;
                                for(int j=digit-1;j>i;j--)
                                        {
                                                if(arr[j]>arr[max])
                                                        max=j;
                                        }
```

```
                        if(arr[i]<arr[max])
                        {
                            int t=arr[i];
                            arr[i]=arr[max];
                            arr[max]=t;
                            break;
                        }
                    }
                int ans=0;
                for(int i=0;i<digit;i++)
                    {
                        ans=ans*10+arr[i];
                    }
                return ans;
    }
}
class Main
{
    public static void main (String[] args)
    {
        Scanner sc = new Scanner(System.in);
        long t = sc.nextLong();

        while(t-- > 0)
        {
            int n = sc.nextInt();
            System.out.println(new Solution().MaxSwap(n));

        }
    }
}
```