https://course.acciojob.com/idle?question=98d8c267-643c-4d17-911 e-b35ca85365c8

- MEDIUM
- Max Score: 40 Points

## Yash and Accio Numbers

Yash has a positive integer 'N'. He wants to find out all the Accio numbers which are less than or equal to 'N'. A number is called an Accio Number if all the adjacent digits in it have an absolute difference of 1.

Note: The difference between '9' and '0' is not considered as 1. All single-digit numbers are considered as Accio Numbers.

### **Input Format**

The only line of input contains one integer 'N'.

## **Output Format**

Print all the Accio Numbers smaller than or equal to N in ascending order.

## **Example 1**

Input

20

Output

0 1 2 3 4 5 6 7 8 9 10 12

Explanation These are all the Accio numbers from 0 to 12 as all the single-digit numbers are Accio numbers and out of the two-digit numbers only 10 and 12 are the Accio numbers less than 20 as the absolute difference in the adjacent digits of 10 and 12 is 1.

#### **Constraints**

```
1 <= N <= 10^8
```

#### **Topic Tags**

- Math
- Arrays

# My code

```
// n 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();
    for(int i=0;i <= n;i++){
    int c=0,r=0,m=i,count=0;
    while(m>0)
     {
```

```
int rr=m%10;
    m/=10;
    if((r==0)&&(count==0))
    {r=rr;count++;}
    else if((r-rr)==1||((rr-r)==1)) r=rr;

    else { c=1; break;}
    }
    if(c==0)
    System.out.print(i+" ");
    }
}
```