- **EASY**
- **Max Score: 30 Points**
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Minimum Number From Pattern

You are given a pattern of up to 8 lengths containing characters `i` and `d`. `d` stands for decreasing and `i` stands for increasing Y ou have to print the smallest number, using the digits 1 to 9 only without repetition, such that the digit decreases following a `d` and increases following an `i`.

eg:

d -> 21

i -> 12

ddd -> 4321

iii -> 1234

dddiddd -> 43218765

Input Format

The first line of input contains a string `str`.

Output Format

The smallest sequence of digits (from 1 to 9) without duplicacy and following the pattern.

Example 1

Input

`ddddiiii`

Output

`543216789`

Explanation

The smallest number that can be formed from the given pattern is 543216789.

Example 2

Input

`idd`

Output

`1432`

Explanation

The given string has 1432 as its minimum number.

Constraints

1 <= |str| <= 8

My code

```java
// n java
import java.util.*;

public class Main{

    public static void main(String[] args) {
        Scanner scn = new Scanner(System.in);
        String str=scn.nextLine();
        minimumNumber(str);

    }
    public static void minimumNumber(String seq)
    {
        // your code here
            String ans = "";
        Stack<Integer> stk = new Stack<Integer>();
        for (int i = 0; i <= seq.length(); i++)
        {
            stk.push(i + 1);
            if (i == seq.length() || seq.charAt(i) == 'i')
            {
                while (!stk.empty())
                        {
                    ans += String.valueOf(stk.peek());
                    //ans += " ";
                    stk.pop();
                }
            }
        }
```

```java
            System.out.println(ans);

        }
}
```