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import java.util.Scanner;
import java.util.regex.Matcher;
import java.util.regex.Pattern;;
public class StrongPasswordCheck {

    public static void main(String[] args) {
        Scanner s=new Scanner(System.in);
        String pass=s.next();
        int f=0;
        if(pass.length()>=8 && pass.length()<=25)
            f=1;
        else
            f=0;
        int cf=0,nf=0;
        Pattern p1=Pattern.compile("[0-9]{1}");
        Pattern p2=Pattern.compile("[a-z]{1}");
        Pattern p3=Pattern.compile("[A-Z]{1}");
        Pattern p4=Pattern.compile("[#_!$_@]{1}");
        int cc=0,sc=0;
        for(int i=0;i<pass.length();i++)
        {
            char c1=pass.charAt(i);
            if(c1=='_')
                cf++;
            String c=Character.toString(c1);
            Matcher m1=p1.matcher(c);
            if(m1.matches())
                nf++;
            Matcher m2=p2.matcher(c);
            if(m2.matches())
                sc++;
            Matcher m3=p3.matcher(c);
            if(m3.matches())
                cc++;
            Matcher m4=p4.matcher(c);
            if(m4.matches())
                cf++;
        }
        if(f==1 && nf>=2 && sc>=1 && cc>=1 && cf>=1)
        {
            System.out.println("VALID");
        }
        else
        {
            System.out.println("INVALID");
        }
    }
}

```