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//Shreya Aravindan
import java.util.Scanner;
public class ShreyaA201920_C1NumTransformation {

    public static void main(String[] args) {
        int P = 0;
        Scanner s = new Scanner(System.in);
        for(int i = 0; i<5; i++) {
            System.out.println("Enter line " + (i+1)+ ":");
            String line = "314159265358 10";
            if(line.substring(line.indexOf(" ")).length()> 1) {
                P = Integer.parseInt(line.substring(line.indexOf(" ")+1));
            }
            else {
                P = Integer.parseInt(line.substring(line.indexOf(" ") +
1,line.indexOf(" ") + 2 ));
            }

            line = line.substring(0,line.indexOf(" "));
            String left = left(line,P);
            System.out.print(left);
            String right = right(line,P);
            System.out.println(right);
        }

        public static String left(String line, int P) {
            int sum = 0;
            String s = "";
            String newLine = "";
            int s1 = 0;
            char atI;
            String reverse = "";
            for(int i = line.length() - 1; i >= 0; i--)
            {
                reverse = reverse + line.charAt(i);
            }

            s= String.valueOf(reverse.charAt(P-1));
            s1 = Integer.parseInt(s);
            for(int i = 0; i<line.length()- P; i++) {
                atI = line.charAt(i);
                sum = Character.getNumericValue(atI) + s1;
                if(sum < 10) {
                    newLine = newLine + String.valueOf(sum);
                }
                else {
                    newLine = newLine + String.valueOf(sum-10);
                }
            }
        }
    }
}

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        return newLine;
    }
    public static String right(String line, int P) {
        int sum = 0;
        String s = "";
        String newLine = "";
        int s1 = 0;
        char atI;
        String reverse = "";
        for(int i = line.length() - 1; i >= 0; i--)
        {
            reverse = reverse + line.charAt(i);
        }

        s= String.valueOf(reverse.charAt(P-1));
        ////
        s1 = Integer.parseInt(s);
        line = line.substring(line.lastIndexOf(s));
        for(int i = 0; i<line.length(); i++) {
            atI = line.charAt(i);
            sum = Math.abs(Character.getNumericValue(atI) - s1);
            newLine = newLine + String.valueOf(sum);
        }

        return (s + newLine.substring(1,newLine.length()));
    }
}

```