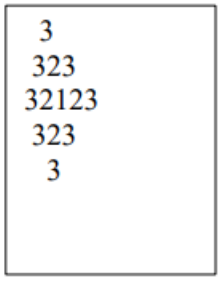
Q.1) Find factorial of a number using Recursive function

```
public class recursiveQ1 {
   public static int recfact(int a){
      int f;
      if(a==1||a==0){
         return 1;
      }
      else {
        f=a*recfact(a-1);
      }
      return f;
   }
    public static void main(String[] args) {
      int n=5;
      System.out.println(recfact(n));
   }
}
```

Q.2) Find Fibonacci series in following pattern 1 2 3 5 8 13

```
public class fiboPatternQ2 {
   public static void main(String[] args) {
      int  c,a=0,b=1;
      int n=3;
      for(int i=1;i<=3;i++){
         for(int j=1;j<=i;j++){
            c=a+b;
            System.out.print(c+" ");
            a=b;
            b=c;
         }
         System.out.println();
      }
   }
}
```

Q.3) Solve following pattern




```
public class patternAQ3 {

   public static void main(String[] args) {


       for(int i=3;i>=1;i--){
          for(int s=1;s<i;s++){
             System.out.print(" ");
          }
          for(int j=3;j>=i;j--){
             System.out.print(j);
          }
          for(int k=3;k>i;k--){
             System.out.print(k);
          }
          System.out.println();
       }
       for(int i=1;i<=2;i++){
          for(int s=1;s<=i;s++){
             System.out.print(" ");
          }
```

```
            for(int j=3;j>i;j--){
                System.out.print(j);
            }
            for(int k=i;k<=1;k++){
              System.out.print(k+2);
            }
            System.out.println();

        }
    }
}



public class patternsQ3 {
    public static void main(String[] args) {
        for(int i=3;i>=1;i--){
            for(int j=1;j<=i;j++){
                System.out.print("*");
            }
            System.out.println();
        }
    }
}
```

Q.4) Print binary of a number in reverse order eg. Input 4 O/P 0 0 1

```
import java.util.Scanner;
public class BinaryQ4 {
   public static void main(String[] args) {

      Scanner sc = new Scanner(System.in);
      System.out.println("Enter a number");
      int num = sc.nextInt();
      if (num == 0) {
         System.out.println("0");
         return;
      }
      while (num > 0) {
         int bit = num % 2;
         System.out.print(bit + " ");
         num = num / 2;
      }

   }
}
```