

Fibonacci series without recursion

```
public class fibo{  
    public static void fibo(int n){  
        if(n == 0 || n == 1){  
            System.out.println(n);  
        }  
  
        int first = 0;  
        int second = 1;  
        int sum = 0;  
        System.out.print(first + " " + second + " ");  
  
        for ( int i=0 ; i<=n-2 ; i++){  
            sum = first + second;  
            System.out.print(sum + " ");  
            first = second ;  
            second = sum;  
        }  
    }  
    public static void main(String args[]){  
        Scanner sc = new Scanner(System.in);  
        System.out.println("Enter number:");  
        int n = sc.nextInt();  
        fibo(n);  
    }  
}
```

Output :-

Enter number : 10

0 1 1 2 3 5 8 13 21 34

Fibonacci series with recursion

```
import java.util.*;

class fibonacci{

    static int a=0,b=1, c;

    public static void main(String args[]){

        Scanner sc = new Scanner ( System.in);

        System.out.print("enter number:");

        int n = sc.nextInt();

        System.out.print(a+" "+b);

        fibonacci ob = new fibonacci();

        ob.printfib(n-2);

    }

    void printfib(int i){

        if(i >= 1){

            c = a + b;

            System.out.print(" "+c);

            a=b;

            b=c;

            printfib(i-1);

        }

    }

}
```

Output:-

enter number:5

0 1 1 2 3