Qs 1:

**Problem statement**

The n-th term of Fibonacci series F(n), where F(n) is a function, is calculated using the following formula -

F(n) = F(n - 1) + F(n - 2),

Where, F(1) = 1, F(2) = 1

Provided ***'n'*** you have to find out the n-th Fibonacci Number. Handle edges cases like when 'n' = 1 or 'n' = 2 by using conditionals like if else and return what's expected.

"Indexing is start from 1"

**Example :**

Input: 6

Output: 8

Explanation: The number is ‘6’ so we have to find the “6th” Fibonacci number.

So by using the given formula of the Fibonacci series, we get the series:

[ 1, 1, 2, 3, 5, 8, 13, 21]

So the “6th” element is “8” hence we get the output.

Answer:

import java.util.\*;

public class Solution {

    public static void main(String[] args) {

        Scanner sc=new Scanner(System.in);

        int n=sc.nextInt();

        int n1=1,n2=1,n3=0;

        if(n==1)

        {

            System.out.println("1");

        }

        if(n==2)

        {

            System.out.println("1");

        }

        if(n>2){

        for(int i=2;i<n;i++)

        {

            n3=n1+n2;

            n1=n2;

            n2=n3;

        }

        System.out.println(n3);

        }

    }

}

Qs 2:

## Problem statement

Write a program to input an integer ***'n'*** and print the sum of all its even digits and the sum of all its odd digits separately.

Digits mean numbers, not places! That is, if the given integer is "132456", even digits are 2, 4, and 6, and odd digits are 1, 3, and 5.

**Constraints**

0<= 'n' <=10000

**Example :**

Input: 'n' = 132456

Output: 12 9

Explanation:

The sum of even digits = 2 + 4 + 6 = 12

The sum of odd digits = 1 + 3 + 5 = 9

**Constraints**

0<= 'n' <=10000

**Example :**

Input: 'n' = 132456

Output: 12 9

Explanation:

The sum of even digits = 2 + 4 + 6 = 12

The sum of odd digits = 1 + 3 + 5 = 9

Answer:

import java.util.Scanner;

public class Main {

    public static void main(String[] args) {

        // Write your code here

        Scanner sc=new Scanner(System.in);

        int n=sc.nextInt();

        int rem,odd=0,even=0;

        while(n!=0)

        {

            rem=n%10;

            if(rem%2==0)

            {

                even+=rem;

            }

            else{

                odd+=rem;

            }

            n/=10;

        }

        System.out.println(even+" "+odd);

    }

}