```
How many times will the following loop run? for (int i=1; i<10; i*=2) {

System.out.println(i);

\frac{1}{2}

\frac{1}{4}

\frac{1}{4}
```

```
Which value(s) can be used to initialize i so that the loop is finite:

public static void main (String[] args) {
    for(int i=_;i>0;i=i%3)
    {
        System.out.print("*");
    }
}
```

```
What will be the output the following code? for(int \ i=1; \ i<5; \ i=i+1)\{ System.out.print(i+""); i=i-1; \}
```

```
Will following code generate error ?
public class Main {
   public static void main(String[] args) {
   for(int i = 0; i < 3; i++) {
      System.out.print(i + " ");
      }
   System.out.print(i + " ");
   }
}</pre>
```

```
What will be the output the following code?

for(int i = 0; i < 5; i = i + 1){

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

i = i + 1;
}
```

Fibbonaii Selies 7 sum of previous tor will jure vent number.

$$0,1 f(0) = 0$$
 $f(1) = 1$ 

a = b ] update
b = c

2 3 5 ---4(1) \_ [+(2) 10) f(8) 3 3 f 14) 5 + (5) 2358 5 J (7) 8 5 3 5 \$ 13 2 0 | | 3 4 5 6 7 1 2 O

## 

```
Scanner s = new Scanner(System.in);
int n = s.nextInt();
int i = 0;
int a = 0;
int b = 1;
int c;
while(i < n){
    c = a + b;
    a = b;
    b = c;
    j++;
System.out.print(a);
```

L= 0 < 10 T	a	Ь
1<10 T	0	1
g < 10 T	1	1
		2
3<10 T	2	3
4<10 T	3	4
5<10 T	5	6
C < 10 T	8	I
7410 <sup>T</sup>	13	
8<10 T 9<10 T	ر ا گ	
10<10 F	2 · 3 ·	
10/1	(55)	),
•	()	//\

```
public static void main(String[] args) {
    Scanner s = new Scanner(System.in);
    int n = s.nextInt();

    int a = 0;
    int b = 1;

    for(int i = 0; i <= n; i++){
        System.out.print(a + " ");
        int c = a + b;
        b = c;
    }
}</pre>
```

```
java -cp /tmp/DMYIoddMYk/HelloWorld
10
0 1 1 2 3 5 8 13 21 34 55
=== Code Execution Successful ===
```