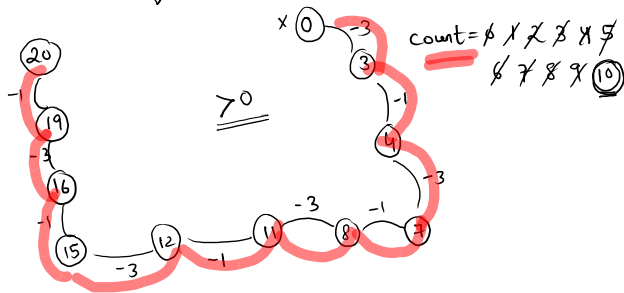Steps till n greater than 0

eg. $n = 20$

even $\rightarrow n-1$ ✓

odd $\rightarrow n-3$ ✓

$\Rightarrow$ total no. of steps.

while.

$count = \cancel{0} \cancel{1} \cancel{2} \cancel{3} \cancel{4} \cancel{5}$
$\cancel{6} \cancel{7} \cancel{8} \cancel{9} \underline{10}$

> 0

eg.


```java
import java.io.*;
import java.util.*;

public class Solution {

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

        int count = 0;

        while(n > 0){
            if(n % 2 == 0){
                //even
                n -= 1;
            }
            else{
                //odd
                n -= 3;
            }
            count++;
        }
        System.out.println(count);

    }
}
```

while

?
{
$n=2$
↳ 100
10×10

$n=3$
↳ 1000
$10 \times 10 \times 10$

$n=4$
↳ 10000
$10 \times 10 \times 10 \times 10$

$n=6$
1 000000

$n=0$
①

?
{
10^{n}

$n=2$
↳ $10^2 = 100$

$n=4$
$10^4 = 10,000$

$n=0$
$10^0 = 1$

$x^y \Rightarrow 2^3 = 8$

$\Rightarrow$
{
$Math \cdot pow(x,y) = x^y$

$Math \cdot pow(2,3) = 8$

{
$n = 3 \cancel{2} \cancel{1} 0$
$res = \cancel{1} \cancel{10} \cancel{100} \boxed{1000} (result)$ $\longrightarrow$ 1000

while $(n > 0)$
{
$res \ast = 10;$
$n--;$
}

$2 > 0$
$1 > 0$
$0 > 0$

```
import java.io.*;
import java.util.*;

public class Solution {

    public static void main(String[] args) {
        Scanner scn = new Scanner(System.in);
        int n = scn.nextInt();
        int res = 1;

        while(n > 0){
            n--;
            res = res * 10;
        }
        System.out.println(res);
    }
}
```

$n = 3 \cancel{2} \cancel{1} 0$
$res = \cancel{1} \cancel{10} \cancel{100} \boxed{1000}$ 0

eg. i $n=3$
1000
↑

$3 > 0$
$2 > 0$
$1 > 0$
$\cancel{0} \boxed{0 > 0}$

$\boxed{0 > 0}$
✗

Print nth Tribonacci number

$$T_n = T_{n-1} + T_{n-2} + T_{n-3}$$

T_0 $a = 0$
T_1 $b = 1$
T_2 $c = 1$
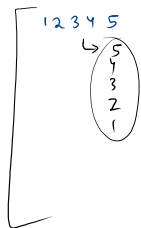
$for \left(i=0 \underline{\hspace{3cm}} <n \right)$

```
public class Solution {

    public static void main(String[] args) {
        Scanner scn = new Scanner(System.in);

        int n = scn.nextInt();
        int a = 0;
        int b = 1;
        int c = 1;

        int i = 0;

        while(i < n){
            int d = a + b + c;
            a = b;
            b = c;
            c = d;
            i++;
        }
        System.out.println(a);

    }
}
```

0 1 1 2 4 ⑦ ⑬ 24 ---
0 1 2 3 4 5 6 7

i|p → 6   n=6   ⁴⁷ ⁷ ¹³

$\begin{bmatrix} a = \cancel{0} \cancel{1} \cancel{1} \\ b = \cancel{1} \cancel{1} \cancel{2} \\ c = \cancel{1} \cancel{2} \cancel{4} \end{bmatrix}$ 4 7 13 24   i=0 1 2 3 4 5 6

    7 13 24 44

$d = 44$

0 < 6
1 < 6
2 < 6
3 < 6
4 < 6
5 < 6

6 < 6

0 1 1 2 4 7 13 24 44

1 2 3 4 5
↳ 5
4
3
2
1

Q ?

123
3
2
1

987
7
8
9

while
revise
1 -1

int 1 2 3 4 ⑤

while

loop {

Syso

}

1 2 3 ④ 5 % 10 → 5
─────────────   4
digit = 5   ③
                     2
/10   1

Code ?

1 2 3 4 % 10
─────────
/10

1 2 ③ % 10
/10

1 2 % 10
/10

① % 10
/10

⓪   stop.

```
import java.io.*;
import java.util.*;

public class Solution {

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

        while( n > 0 ){
            int digit = n % 10;
            System.out.println(digit);
            n = n / 10;
        }
    }
}
```

n = 1234

1234 > 0   123 > 0   4
─────────   ─────────   3
digit = 4   digit = 3   2
                                             1
        12 > 0
       ─────────
       digit = 2

1/10 = 0   1 > 0   0 > 0
            ─────────
            digit = 1

123
10 ⟌ 1234
     123
     → ④

1234 % 10 = 4
1234 / 10 = 123

String Sol.

int   n = 1234, ✓

String 8 = "" + n;

8 = "1 2 3 4" ;
    0 1 2 3

len = 4

i = 3 / 1 / 0

for (int i = s.length() -1 ; i ≥ 0 ; i--)
{
3 > 0
2 > 0
1 > 0
Syso→ s.charAt(i) ;
0 ≥ 0
}

4
3
2
1

doubt

int n = 4 2 3 6

4

String s = ''' + n;   .length()

s.length()