Nth Fibonacci Number 7

Problem | Submissions | Leaderboard | Discussions

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

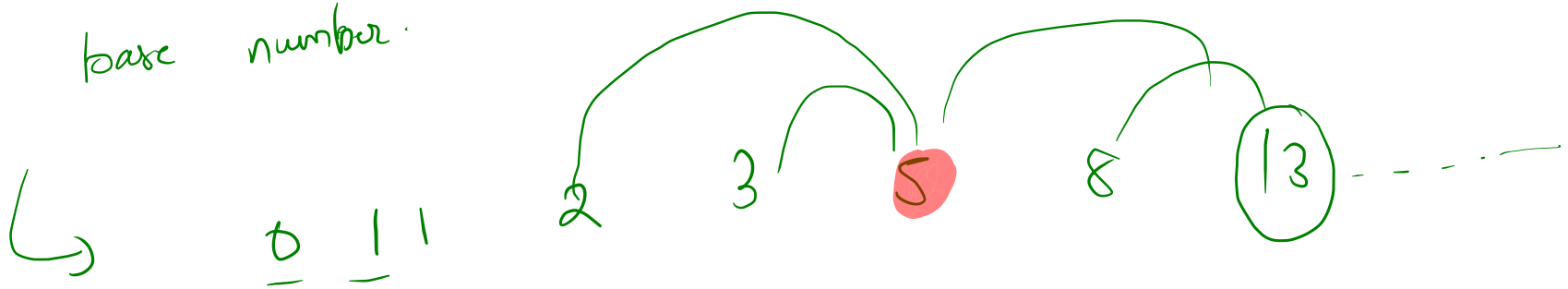
```
F(n) = F(n-1) + F(n-2),
Where, F(1) = F(2) = 1
```

Provided N you have to find out the Nth Fibonacci Number.

Input Format

The first line of each test case contains a real number **N**.

base number.



0 1 1 2 3 5 8 .....

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

Nth Fibonacci Number 7

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$F_n = F_{n-1} + F_{n-2}$

Nth term of Fibonacci series F(n), where F(n) is a function, is calculated using the following form

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

$F(1) = 1$
$F(2) = 1$

Provided N you have to find out the Nth Fibonacci Number.

Input Format

The first line of each test case contains a real number **N**.

1 1

for

n=6.
↳ 8

1 1 2 3 5 8 13 21 . . . .

n=5
↳ 5

a=X1 ⇝ 1st

b=X2 ⇝ 2nd

for(

c = a+b
a = b
b = c
)

1 1 2 3 5 8 ↓

a b c

a b c

a b c
a b c
a b

repeat.

c = a+b ✓
a = b
b = c

a= X X 2 3 5
b= X 2 3 5 8

i = b
b = c

b = c

fibonacci series.

↳ 0 1 1 2 3 5.....

a b

0 [1 1 2

1 1

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

0 1 1 2 3 5 8 13 .....

-ve

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

1 1

Sunday. (pen & paper)

```java
public class Solution {

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

        int a = 1;
        int b = 1;

        for(int i = 1; i < n; i++){
            int c = a + b;
            a = b;
            b = c;
        }

        System.out.println(a);


    }
}
```

n=6

n=7

n=5

6th

You are

n=6 → 8

a = 1 1 2 3 5 8

b = 1 2 3 5 8 13

a = 8

b = 13

i = 1 2 3 4 5 6

1<6 ✓

2<6 ✓

c = 3

3<6 ✓

c = 5

4<6 ✓

c = 8

5<6

c = 13.

X 6<6

a = b

b = c

4th term

1 1 2 3 5 8 . . .

```java
public class Solution {

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

        int a = 1;
        int b = 1;

        for(int i = 1; i < n; i++){
            int c = a + b;
            a = b;
            b = c;
        }

        System.out.println(a);

    }
}
```

n=6. → 8

a=~~1~~ 1

b=~~1~~ 2

i=1 (0) 1<6 ✓

c=2

1 (1 2) 3

a b

a b

a = b

b = c

GKSTR46 Number of Digits

Problem | Submissions | Leaderboard | Discussions

Take an **integer N** as input.

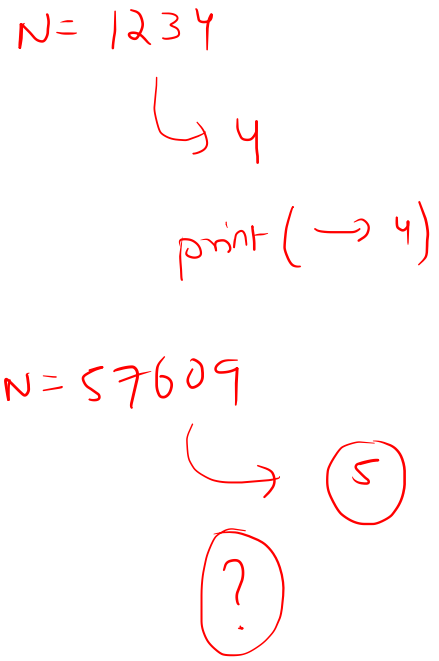
Print the number of **digits** present in **N**.

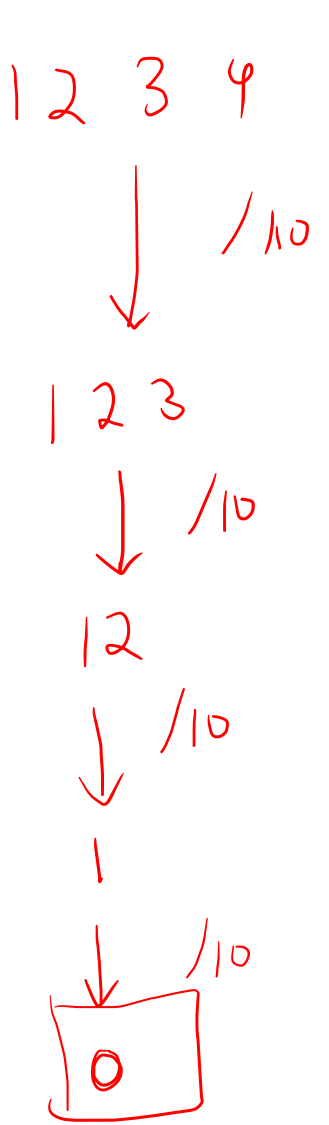
Input Format

An integer input **N.**

Constraints

```
1 <= N <= 10^6
```





count = ~~0~~ ~~1~~ ~~2~~ ~~3~~ 4

eg. n = 72351

/10

7235

/10

723

/10

72

/10

7

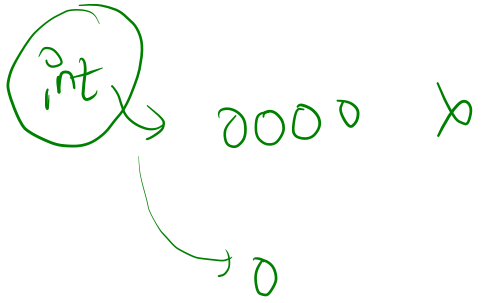
/10

0

stop

count = 0 1 2 3 4 5

count++



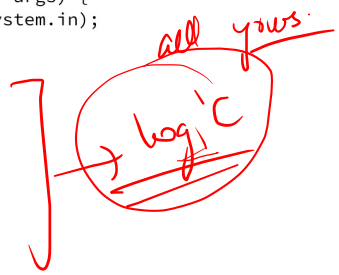
```java
import java.io.*;
import java.util.*;

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){
            n /= 10;
            count++;
        }
        System.out.println(count);
    }
}
```



You are screen shari

n = 1234

count = 0 . 1 2

1234 > 0

1234 / 10 = 123

123 > 0

12 > 0

1 2 3 4

Print total steps when n/2

Problem | Submissions | Leaderboard | Discussions

Take an integer input **n** and then keep on dividing **n** by **2**, till the time **n is greater than equal to 1**.

Each time you divide **n** by **2**, increment steps by **1**.

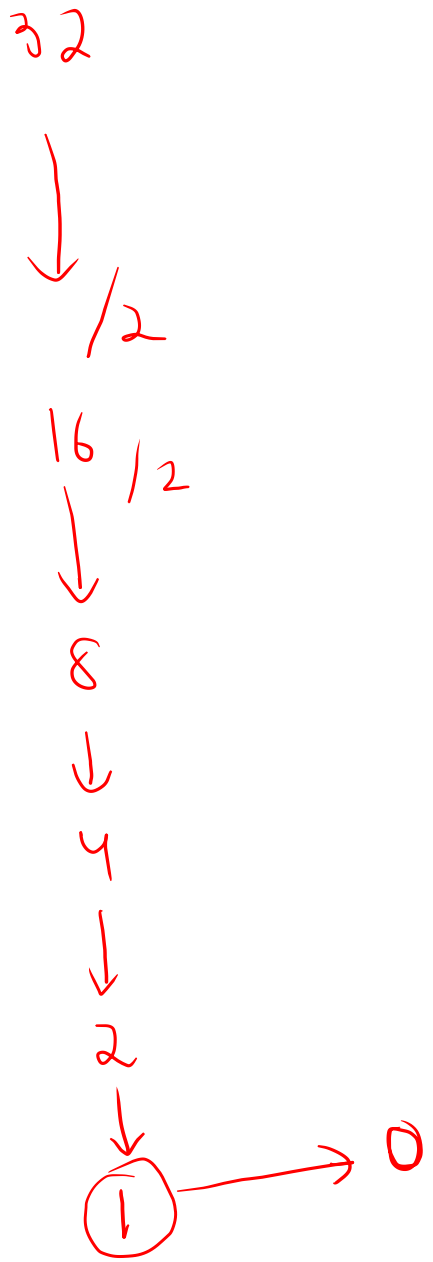
Print the total number of steps in end.

Note : use function.

Input Format

For each test case, take an integer input **n**.

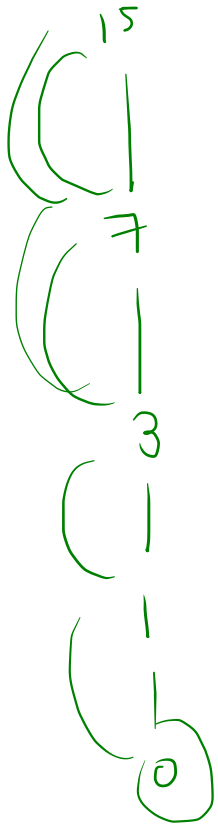
Constraints



step = 0 1 2 3 4 5 6

≥ 1

< 1



≥1

≥1

step=1 ✓

n=0

step=0 ✗ ✗ ✗ 4

step=0

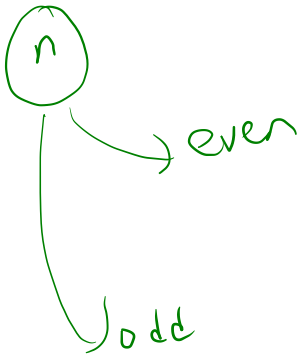
while (n ≥ 1)

{ n /= 2

step++

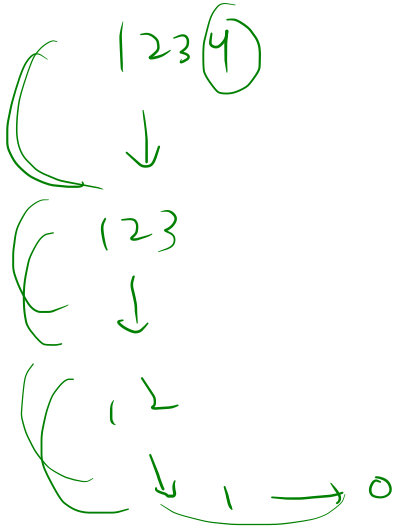
}

0≥1

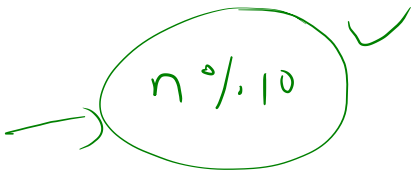


Maths.

digits.



last



Problem | Submissions | Leaderboard | Discussions

Take n as input from the user. Then you will be given a list of n positive integers, each time you find a new maximumal value, you have to increment the steps by 1.

Take steps as 0 initially and maximum value as -100 in the starting.

In the end print the number of steps performed.

Note : Use function.

Input Format

Take n as an integer input from the user.

Constraints

```
0 <= n <= 2^31-1
```

6

Sample Input 1

7
2
3
4
5
1
2
10

Sample Output 1

5

Sample Input 2

(5)

3 2 7 1 9

i/p

compare

update.

max = -100 3 7 9

step = 0 Y 2 (3)

3 > max

3 > -100

2 > max

2 > 3

7 > max

7 > 3 ✓

1 > max

1 > 7

4 > max

(1)

1 2 3 4 5 6 7

max = -1∞ 3 4 7

step = 1 2 3

5

3 4 1 7 2

3 > max ✓

3 > -1∞

4 > max

4 > 3

1 > 4

2 > 7 ✗

7 > 4 ✓

max = 4

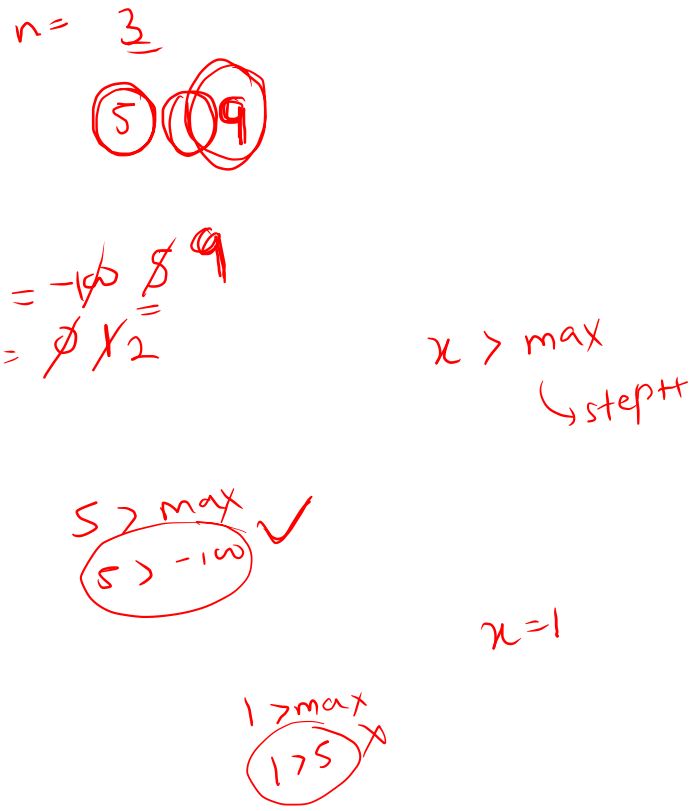
x = 7

7 > 4

max = x

step = +1

```
6    public static void main(String[] args) {
7        Scanner scn = new Scanner(System.in);
8        int n = scn.nextInt();
9
10       int max = -100;
11       int step = 0;
12
13
14       int i = 0;
15       while(i < n){
16           int x = scn.nextInt();
17           if(x > max){
18               max = x;
19               step++;
20           }
21
22           i++;
23       }
24
25       System.out.println(step);
```



No ?

No where.

n=5

```
int i = 1;
while(i <= n){
    print("Aman");
    i++;
}
```