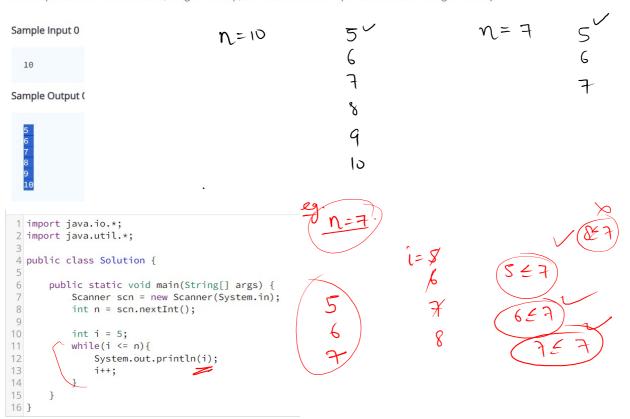
Printing 5 to N(While Loop)

WAP to print numbers from **5 to n**(using while loop) where **n** is taken as input from the user using while loop.



Print 4,13,22,31.....n

A programming task was assigned to a beginner named Alex. The task was to print the sequence 4, 13, 22, 31.... until n using a while loop. Alex took the value of n as input from the user and successfully completed the task.

Sample Input 0

Sample Output 0

Print n, n-k, n-2k, n-3k.... till l

N-K-K= N-2K

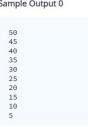
You will be given three integer inputs N,K and L and you to print the series N, N-K, N-2K, N-3K.... till last where the value printed in the end should be just greater than or equal to the given input L.

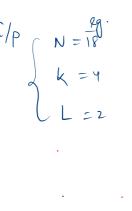
N-2K-K= N-3k

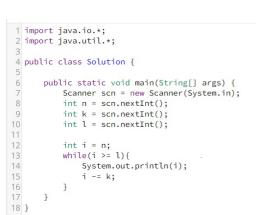
Sample Input 0

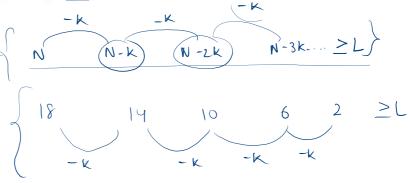


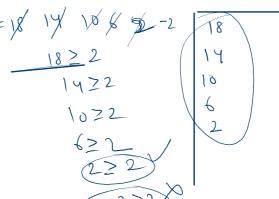
Sample Output 0











Running product while loop.

Imagine you are a math teacher and one of your students, Maria, is struggling with understanding how to find the **running product** of a series of integers. You decide to give her a problem to work on as practice.

The problem is as follows Maria will be given a series of nintegers as input, she has to print the product after she take input of an integer each time.

For example, if the series of integers is 3, 4, 5, 6 the output should be 3, 12, 60, 360 Maria is a little bit confused at first, but with your guidance and some careful practice, she is eventually able to understand and solve the problem successfully.

Sample Input 0

3 4 5 6

Sample Output 0

3 12 60 360

il) i2

i3 iy

3

60 360-

1 import java.io.*; 2 import java.util.*;

8

9 10

11 12

13 14

15

16

17

18

19

20 }

4 public class Solution {

int ans = 1;

int i = 1;

while(i <= n){

j++;

}

}

int n = scn.nextInt();

ans = ans * x;

int x = scn.nextInt();

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

ars =/ 18 200 6000

6000

200

10

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

Steps till n greater than 0

Meet Jake, a data analyst who is working on a project to analyze the performance of a new machine learning model. One of the tasks he has been assigned is to write a program that simulates the operation of the model by taking an integer input **n** and performing a series of steps until the value of **n** becomes **0**.

If n is even, the program should $\underline{\text{subtract 1}}$ from n. If n is odd, the program should $\underline{\text{subtract 3}}$ from n.

Jake needs to keep track of the total number of steps that the program performs and print this value at the end. Can you help Jake come up with a solution for this problem?

Sample Input 0

2 20 37

Sample Output 0

10 19 $\frac{t=2}{n=20}$ $\int \text{calc-step}$

$$N = 37$$
 l_{col} . stef

```
1 vimport java.io.*;
   import java.util.*;
 4 *public class Solution {
 5
 6
        public static void main(String[] args) {
 7
            Scanner scn = new Scanner(System.in);
 8
            int t = scn.nextInt();
                                            //total inputs
            int i = 1;
 9
10
            while(i <= t){
                int n = scn.nextInt();
11
                int steps = 0;
12
13 •
                while(n > 0){
                    if(n \% 2 == 0){
14
15
                        n -= 1;
16
                    }else{
17
                        n -= 3;
18
19
                    steps++;
20
21
                System.out.println(steps);
22
                j++;
23
24
25 }
```

```
\begin{array}{c}
1 = 1 \\
1 = 1
\end{array}

\begin{array}{c}
2 \leq 1
\end{array}
```

$$n = 8$$

$$8 + eps = \emptyset \times 2 \cancel{3} \cancel{9}$$

$$8 > 0$$

$$7 > 0$$

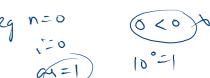
$$4 > 0$$

$$3 > 0$$

$$0 > 0$$

nth power of 10 using while loop

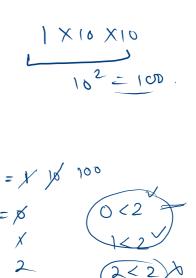
A programming task was assigned to a beginner named Emily. The task was to take an integer input \mathbf{n} and print the nth power of 10 integers as an output. Emily successfully completed the task by taking the input value of **n** and using it to access the desired element of the sequence.



```
Sample Input 0
```

```
1
Sample Output 0
  10
Sample Input 1
Sample Output 1
```

```
1 import java.io.*;
2 import java.util.*;
4 public class Solution {
6
      public static void main(String[] args) {
          Scanner scn = new Scanner(System.in);
                                                      J 1=2
          int n = scn.nextInt(); _
9
          int ans = 1;
11
          int i = 0;
12
          -while(i < n){
13
              ans *= 10;
14
              j++;
15
          System.out.println(ans);
16
17
18 }
```



Print nth Tribonacci number

J. .

while

0

c = d;

System.out.println(a);

19 20 21

22 }

Q=6

b = c

C = d

a= \$ 1

6=XX2

C=124

0/p -> 7

d = 4

```
1 import java.io.*;
2 import java.util.*;
4 public class Solution {
5
6
      public static void main(String[] args) {
7
          Scanner scn = new Scanner(System.in);
8
          int n = scn.nextInt();
9
10
          int a = 0;
11
          int b = 1;
12
          int c = 1;
13
14
          // for(int i = 0; i < n; i++){
15
          11
                 int d = a + b + c;
16
          11
                 a = b;
17
          11
                 b = c;
18
          11
                 c = d;
19
          11 }
20
          int i = 0;
21
          while(i < n){
22
              int d = a + b + c;
23
              a = b;
24
              b = c;
25
              c = d;
26
              i++;
27
          }
28
29
30
          System.out.println(a);
31
32 }
```