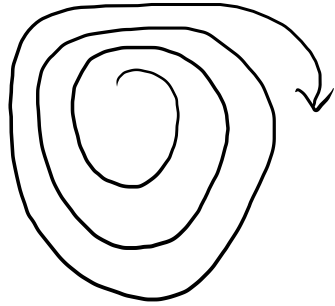


loops.



again & again

print numbers from 1 to 1000

Syso. = print (1)

print (2)

...

print (1000)

1000 times.

100000 times.

print
no. of times.

loops.

3 lines {

→ 1000 / 100000

for

while.

for - loop.

```
for(int i = 1; i <= 5; i++){  
    System.out.println(i);  
}
```

for (① ; ② ; ④)
{

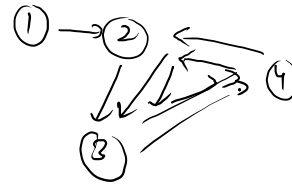
③

}

for (^①initialize ; ^②condition ; ^④update value)
{

body of for loop // main logic
^③

}



i=1

i ≤ 5. ⇒

① ≤ 5

```
for(int i = 1; i <= 5; i++){  
    System.out.println(i);  
}
```

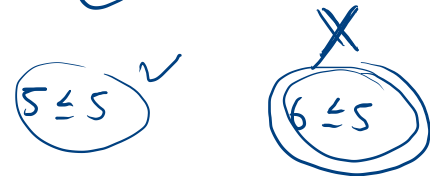
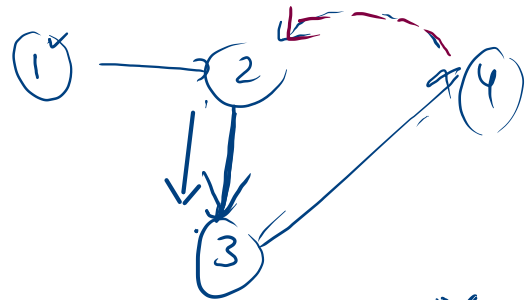
for (^① initialize ; ^② condition ; ^④ update value)
 {
 ^③
 body of for loop // main logic
 }

```

11
12 for(int i = 1; i <= 5; i = i + 1){
13     System.out.println(i);
14 }
15

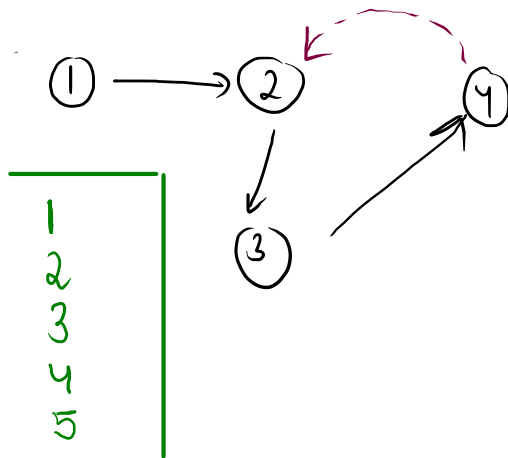
```

1. $i = 1$ ~~2~~ ~~3~~ ~~4~~ ~~5~~ 6 ✓
2. $1 \leq 5$ ✓ $2 \leq 5$ ✓
3. $3 \leq 5$ ✓ $4 \leq 5$ ✓



1
2
3
4
5

for (^①initialize ; ^②condition ; ^④update value)
 {
 ^③
 body of for loop // main logic
 }



```

for(int i = 1; i <= 5; i = i + 1){
    System.out.println(i);
}
  
```

$i = 1$	$1 \leq 5$ ✓
2	$2 \leq 5$ ✓
3	$3 \leq 5$ ✓
4	$4 \leq 5$ ✓
5	$5 \leq 5$ ✓
6	$6 \leq 5$ ✗

1
2
3

```
1 import java.io.*;
2 import java.util.*;
3
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        for(int i = 1; i <= n; i++){
11            System.out.println(i);
12        }
13    }
14 }
```

$i=1$
~~2~~
~~3~~
4

$1 \leq 3$ ✓
 $2 \leq 3$ ✓
 $3 \leq 3$ ✓
 $4 \leq 3$ ✗

Print x to n

Problem

Submissions

Leaderboard

Discussions

You will be given x and n as an integer input from the user. You have to print the number from x to n (both inclusive), each number in the different line.

3
4
5
6
7
8
9
10

$[x, n]$

eg. $x=3$
 $n=7$

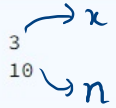
3
4
5
6
7

start = x

process till n .

Sample Input 0

3
10



Sample Output 0

3
4
5
6
7
8
9
10

expected

3	3
4	4
5	5
6	6
7	7

eg. $x=3$
 $n=7$

$x=3$
 $n=7$

~~$i=3$~~
~~4~~
~~5~~
~~6~~
~~7~~
~~8~~

$3 \leq 7$ ✓
 $4 \leq 7$ ✓
 $5 \leq 7$ ✓
 $6 \leq 7$ ✓
 $7 \leq 7$ ✓
 $8 \leq 7$ ✗

```

1 import java.io.*;
2 import java.util.*;
3
4 public class Solution {
5
6     public static void main(String[] args) {
7         Scanner scn = new Scanner(System.in);
8         int x = scn.nextInt();
9         int n = scn.nextInt();
10
11         for(int i = x; i <= n; i++){
12             System.out.println(i);
13         }
14
15     }
16 }

```


Print table of 4

Problem

Submissions

Leaderboard

Discu

You have to print the table of 4 using the loop concept as given below:

blue \rightarrow fixed.

yellow \rightarrow vary.

green $\rightarrow 4 \times i$

$i = 1$

$i \leq 10$

$$\begin{array}{rcl} 4 \times \overset{i}{1} & = & 4 \quad \dots (4 \times 1) \\ 4 \times 2 & = & 8 \quad \dots (4 \times 2) \\ 4 \times 3 & = & 12 \\ 4 \times 4 & = & 16 \\ 4 \times 5 & = & 20 \\ 4 \times 6 & = & 24 \\ 4 \times 7 & = & 28 \\ 4 \times 8 & = & 32 \\ 4 \times 9 & = & 36 \\ 4 \times 10 & = & 40 \end{array}$$

$$4 \times 1 = 4$$

$$4 \times 2 = 8$$

$$4 \times 3 = 12$$

$$4 \times 4 = 16$$

$$4 \times 5 = 20$$

$$4 \times 6 = 24$$

$$4 \times 7 = 28$$

$$4 \times 8 = 32$$

$$4 \times 9 = 36$$

$$4 \times 10 = 40$$

```

1 import java.io.*;
2 import java.util.*;
3
4 public class Solution {
5
6     public static void main(String[] args) {
7         for(int i = 1; i <= 10; i++){
8             System.out.println("4x" + i + "=" + (4*i));
9         }
10    }
11 }

```

✓ $4 \times 1 = 4$
 ✓ $4 \times 2 = 8$
 ✓ $4 \times 3 = 12$
 ⋮

$i = 1$

~~2~~

~~3~~

4

$1 \leq 10$ ✓

$2 \leq 10$ ✓

$3 \leq 10$ ✓

$i = 11$

$11 \leq 10$ ✗

GKSTR11 Multiple Of 7

Problem

Submissions

Leaderboard

Discussion

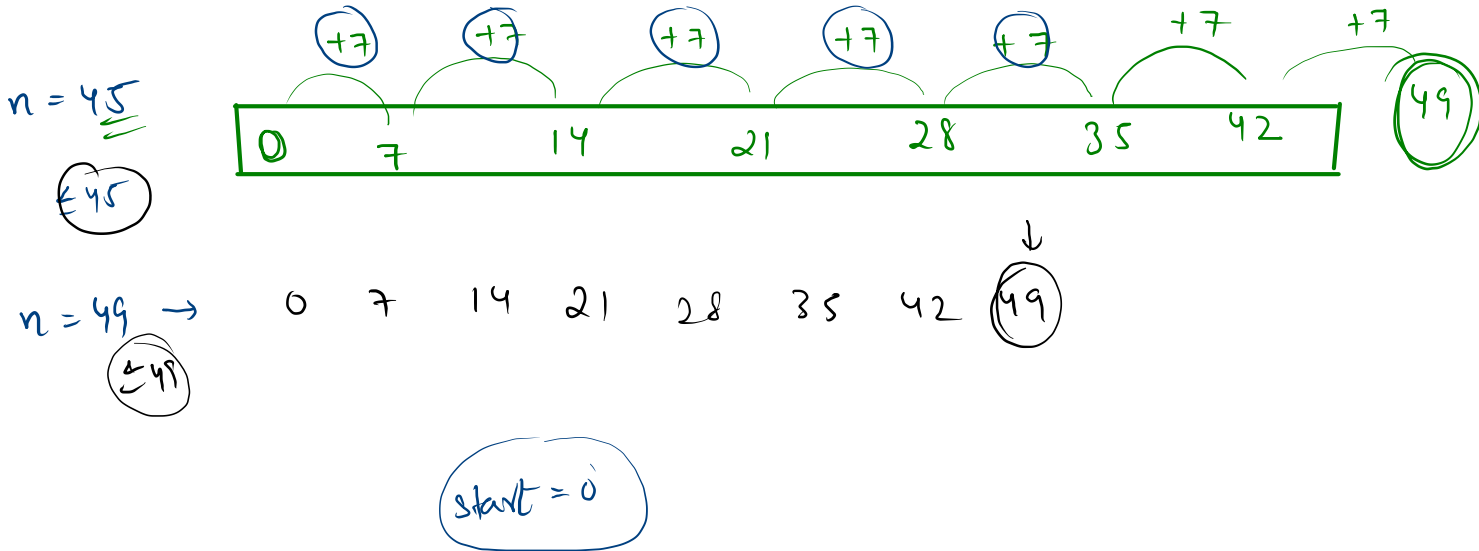
Take an integer N as input, and print all the multiples of 7 till N (inclusive).

Sample Input 0

98

Sample Output 0

✓ 0 7 14 21 28 35 42 49 56 63 70 77 84 91 98



Language: Java 8

```
1 import java.io.*;
2 import java.util.*;
3
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         for(int i = 0; i <= n; i += 7){
10             System.out.print(i + " ");
11         }
12     }
13 }
```

0 _ 7 _ 14 _ 21 _ 28 _

$n=29$

$n=29$

$i=\emptyset$

$0 \leq 29$

~~7~~

$7 \leq 29$

~~14~~

$14 \leq 29$

~~21~~

$21 \leq 29$

~~28~~

$28 \leq 29$

35

$35 \leq 29$

X

Print 2,9,16...

Problem	Submissions	Leaderboard	Discussions
---------	-------------	-------------	-------------

You will be given an input n of integer data-type. You have to print numbers of the series 2, 9, 16, 23... till n in different lines, where the last number printed should be an integer just less than n or equal to n.

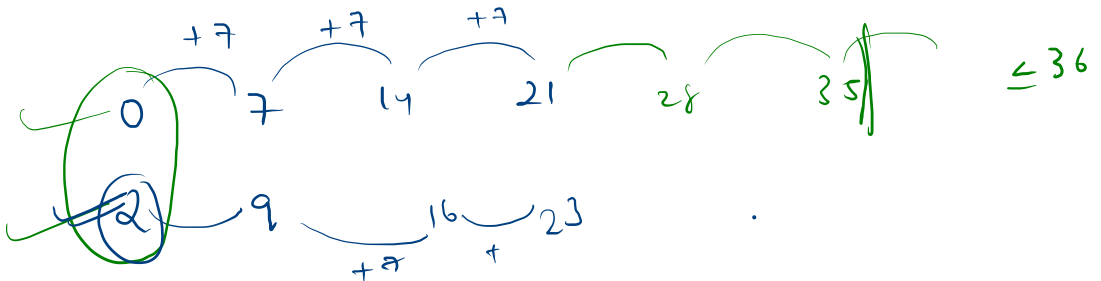
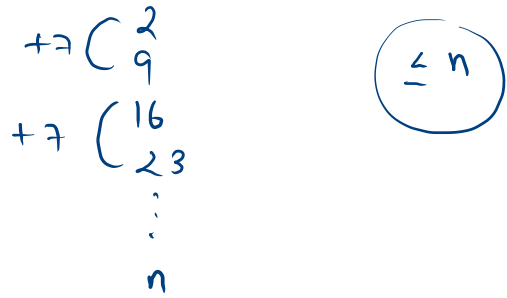
To be clear, you will print n if it belongs to the series.

Sample Input 0

40

Sample Output 0

2
9
16
23
30
37



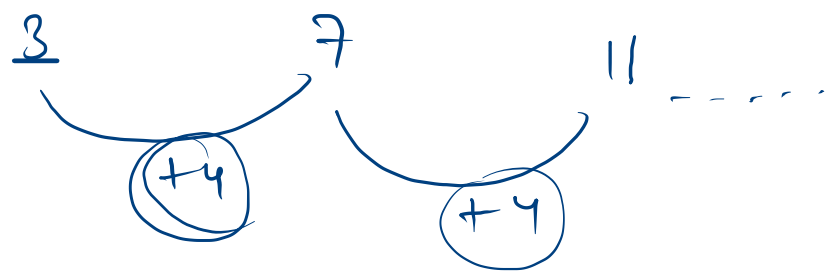
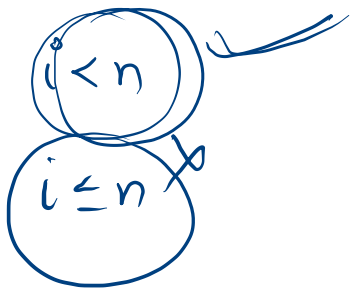
```
1 import java.io.*;
2 import java.util.*;
3
4 public class Solution {
5
6     public static void main(String[] args) {
7         Scanner scn = new Scanner(System.in);
8         int n = scn.nextInt();
9         for(int i = 2; i <= n; i += 7){
10             System.out.println(i);
11         }
12     }
13 }
```

$i = i + 7$

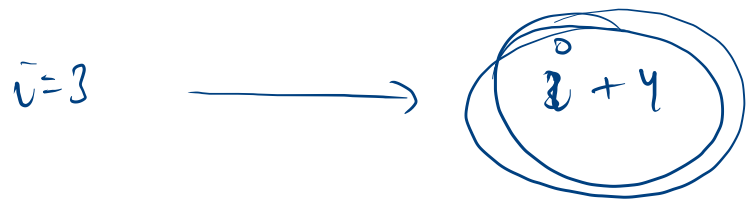
Print 3 7 11 15...

Problem	Submissions	Leaderboard	Discussions
---------	-------------	-------------	-------------

You will be given an integer input n , and you have to print the series 3, 7, 11, 15 till the integer just less than n , in n different lines.



$i += 4$
 $i = i + 4$



Print n to 1

Problem

Submissions

Leaderboard

Discussions

You will be given an input n as an integer data-type. You have to print the series from n to 1 in n different lines.

5
4
3
2
1

```
for ( int i = n ;  
    {  
        syso(i)  
    }
```

$i \geq 1$

~~$i = i - 1$~~
 ~~$i --$~~
 ~~$i = 1$~~

$n = 5$

✓
5
4
3
2
1

$n = 3$

3
2
1

~~$i = 5$~~ ✓
~~X~~ (5 2 1)
~~3~~ 4 2 1
~~2~~ 3 2 1
~~1~~ 2 2 1
0 1 2 1
0 (0 2 1) ✓

```

1 import java.io.*;
2 import java.util.*;
3
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         // for(int i = n; i >= 1; i--){
10        //     System.out.println(i);
11        // }
12
13        for(int i = n; i > 0; i--){
14            System.out.println(i);
15        }
16    }
17 }

```

$i = 0$ \rightarrow stop

2nd



1st

