Revision.

✓ **Small Capital or Digit**

Success Rate: 100.00%   Max Score: 10   Difficulty: Medium

✓ **Add if a digit**

Success Rate: 100.00%   Max Score: 10   Difficulty: Medium

✓ **Toggle the character**

Success Rate: 100.00%   Max Score: 10   Difficulty: Medium

✓ **Print character at 3rd index**

Success Rate: 100.00%   Max Score: 10   Difficulty: Medium

✓ **Concatenate_Two_Strings**

ch } i/p ⟸ capital / small / Digit

isDigit
is UpperCase
is LowerCase

$ch \geq 'a' \wedge ch \leq 'z'$ is LowerCase

(ch) } i/p

1. '7' − '0'
   = ⑦ + 100

2. getNumericValue

A   Z
     9
0

.charAt(3).

$$CH - 'A' = ch - 'a'$$

(len ≥ 4)?

| 0 | 1 | 2 | ③ |

s = "Hello"
t = "World"

s + t

string concatenate 2

Given 2 strings, s1 and s2, return a string of the form `short+long+short`, with the **shorter** string on the **outside** and the **longer** string on the **inside**. The strings will not be the same length, but they may be empty (length 0).

```
comboString("Hello", "hi") → "hiHellohi"
comboString("hi", "Hello") → "hiHellohi"
comboString("aaa", "b") → "baaab"
```

s1 aman
s2 Srivastava

aman Srivastavaaman.

baaab. ?

""

loops

↳ _for._

particular.
some ˆ task → repeat.

eg.

Hello World.   3 times.

↳ Sout (HW)
  Sout (HW)   } point   3 times.
  Sout (HW.)

                    3000 times.
                    { 3000 times.

Repeat task :→ loops.

1. FOR Loop.

$i = i+1$

for (① ; ② condition ; ④) i++
      initialize   value update

{
  } body / logic.
  ③
}
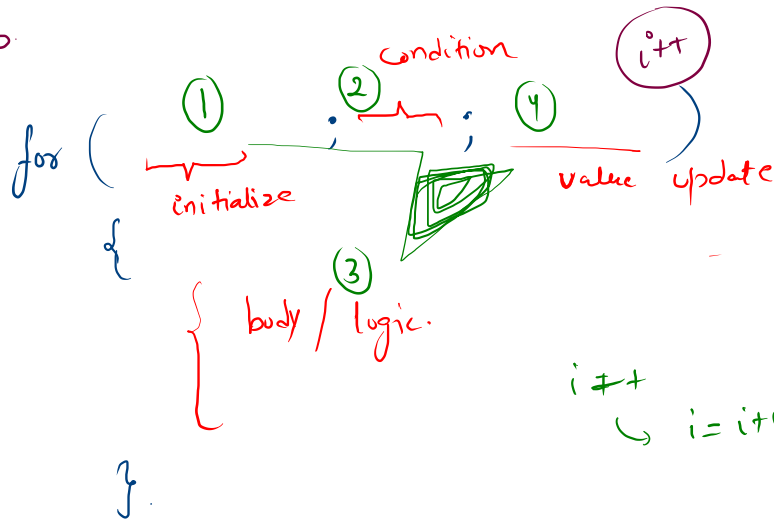
$i = \cancel{1} \; \cancel{(2)} \; \cancel{3} \; 4$

$1 \leq 3000$?
  ↓ true
  body.

$2 \leq 3000$
$3 \leq 3000$ ✓

4
⋮

i++
  ↳ i = i+1

for (int i=1 ; i ≤ 3000 ; i++)
  {
    Sout ("Hello world");
  }

  }

HW
HW HW
⋮
⋮

GKSTR09 Print_Range

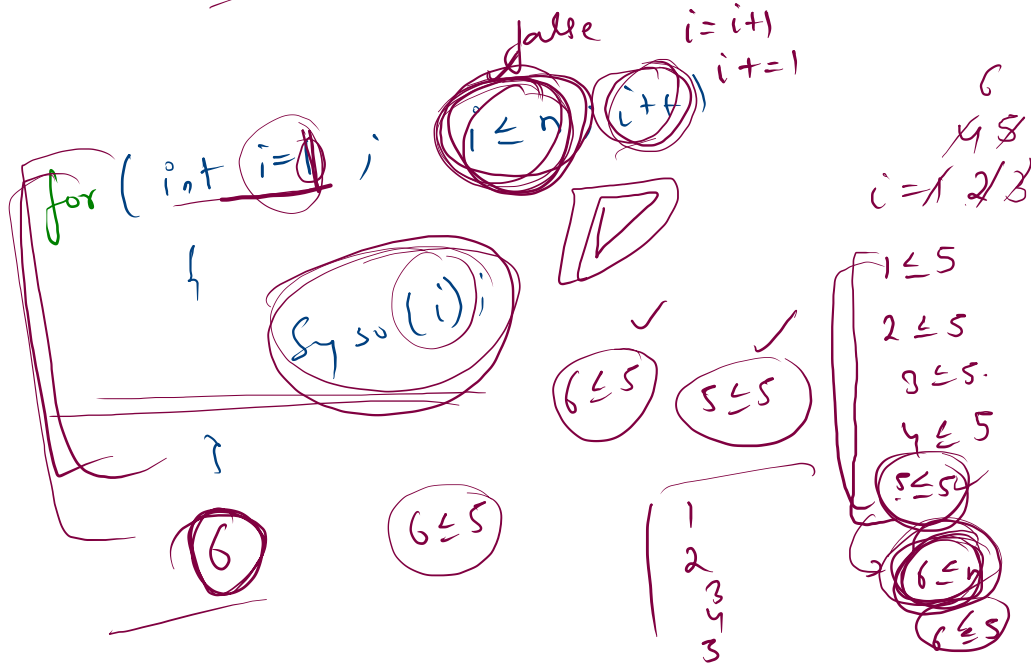| Problem	Submissions	Leaderboard

Given a number **n**, print all integers in *range 1 to n*.

You can assume that input is a positive integer

$n=5$ $n=3$ $n=5w$

$false$ $i=i+1$
$i+=1$

for (int i=1 ; i)

$i \leq n$ $i++$

6
48
$i=1\ 2/3$

{

Sysu(i);

$1 \leq 5$
$2 \leq 5$
$3 \leq 5$
$4 \leq 5$
$5 \leq 5$
$6 \leq 5$
$6 \leq 5$

$6 \leq 5$ $5 \leq 5$

}

6

$6 \leq 5$

1
2
3
4
3

1
2
7
4
3

for (① ; ② ; ④)
{

}

③

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

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

}
```

$i = 1 \ 2 \ 3 \ 4 \ 5$

$1 \leq 4$

$2 \leq 4$

$3 \leq 4$

$4 \leq 4$

$5 \leq 4$

5

4 → correct

→ false.

```
for(int i = 0; i < n ; i++   ){
    System.out.println(i+1);

}
```

$n = 3$

1
2 } 940
3

$i = \emptyset \; \text{X} \; \cancel{1} \; \cancel{2} \; 3$

$0 < 3$ ✓
$1 < 3$ ✓
$2 < 3$ ✓
$3 < 3$ ✗

$\emptyset$
2
3

Print x to n

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.

$x \brace n$ i/p

$n = 3.$
$n = 6.$

$[x , n]$

$x = 2$
$n = 7$

$\begin{matrix} 3 \\ 4 \\ 5 \\ 6 \end{matrix} \Big\}$?

$\begin{matrix} 2 \\ 3 \\ 4 \\ 5 \\ 6 \\ 7 \end{matrix} \Big\}$?

$n = 1$
$n = 2$

$\begin{matrix} 1 \\ 2 \end{matrix}$

$\left(\begin{matrix} x \\ n \end{matrix} \right)$ $[x$

for $\left(\quad \underline{i = \textcircled{x}} \quad ; \quad i \leq n \quad ; \quad i++ \quad \right)$

{

Syso(i).

}

Print table of 4

4x1=4

4x2=8

4x3=12

4x4=16

4x5=20

4x6=24

4x7=28

4x8=32

4x9=36

4x10=40

$$4 \times \bigcirc{1} = \bigcirc{4}$$ ↓ ↓ generate.

$$4 \times \bigcirc{2} = \bigcirc{8}$$

$i=1 \ \cdots \ i \leq 10$
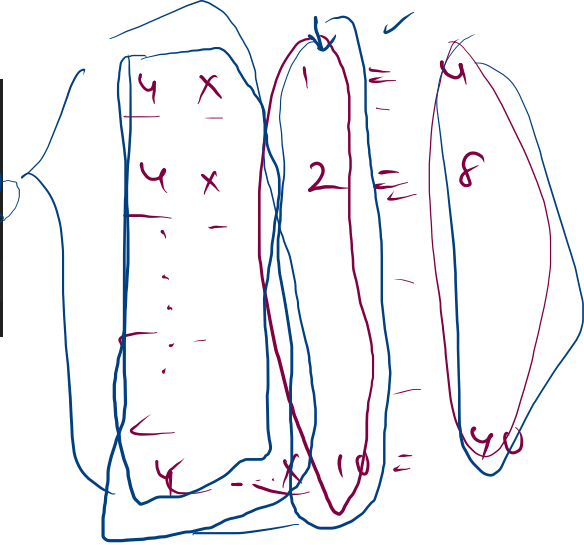
$4 \times i$

3   ⋮

4   1

5   ⋮

⋮

10   40

```
public static void main(String[] args) {
    for(int i = 1; i <= 10; i++){
        System.out.println("4x" + i + "=" + 4*i);
    }
}
```

Syso(4×i   );

GKSTR11 Multiple Of 7

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

$n = 21$ ✓

0   7   14   21

?

$$\left\{ \text{for } (\text{ int } i=0 ; \ i \leq n ; \ i = i+7) \right.$$

$$\{ \quad \text{Syso}(i);$$

$$\}$$

```
int n = scn.nextInt();


//1  + 7
for(int i = 0; i <= n; i += 7){
    System.out.print(i + " ");
}
}
```

$i = 0 \; 7 \; 14 \; 21$
28

$0 \leq 22$ ✓

$7 \leq 22$ ✓

$14 \leq 22$ ✓

$21 \leq 22$ ✓

$28 \leq 22$ ✗

$n = 22$

$0 \quad 7 \quad 14 \quad 21$

0 7 14 21

```
int n = scn.nextInt();


//1  + 7
for(int i = 0; i*7 <= n; i++){
    System.out.print(i*7 + " ");
}
```

n=22.

i = 0̸ 1̸ 2 3̸ 4

0 7 14 21

0*7 = 0 ≤ n ✓

0 ≤ 22 ✓

1*7 ≤ 22

7 ≤ 22 ✓

4×7

28 ≤ 22

2*7

14 ≤ 22

3×7

21 ≤ 22

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.

n

$\leq n$

$n = 38$
37

2   9   16   23   30   37

7   7   7   7   7