Syntax :

```
for (Initialization ; Condition ; Update) {
        // Statements to execute
}
```

Q Print all the numbers from 1 to 10 using for loop.

```
int i = 1;
while (i<=10) {
    sop(i);
    i++;
}
```

```
for(int i=1; i<=10; i++) {
        sop(i);
}
```

Q Print all odd numbers from 1 to N (Input) using for loop.

Q. Read an input from user (N)
Print all the factors of N.

Eg: 12: 1, 2, 3, 4, 6, 12

36: 1, 2, 3, 4, 6, 9, 12, 18, 36

$$4 \overline{)24} \quad 6 \quad 24 \quad 0$$

$$6 \overline{)21} \quad 3 \quad 18 \quad 3$$

$(6 \times 4) = 24$

x is a factor of y

$((y \,\%\, x) == 0)$ (B)

N → 1

N/0 → ∞

0 = 0

$0 \,\%\, x \rightarrow 1$

$1 == 0$

N → $(N \,\%\, N) == 0$

$x > N \Rightarrow (N \% x) == 0$??

No

---

8 ⇒ 1 [2, 3, 4, 5, 6, 7] 8

(count == 0)

Q Read N from user.

Find the min no. (min count) of natural no's needed to be added from 1 to create a sum >/N

N = 11 → 1+2+3+4+5 ⇒ {5}

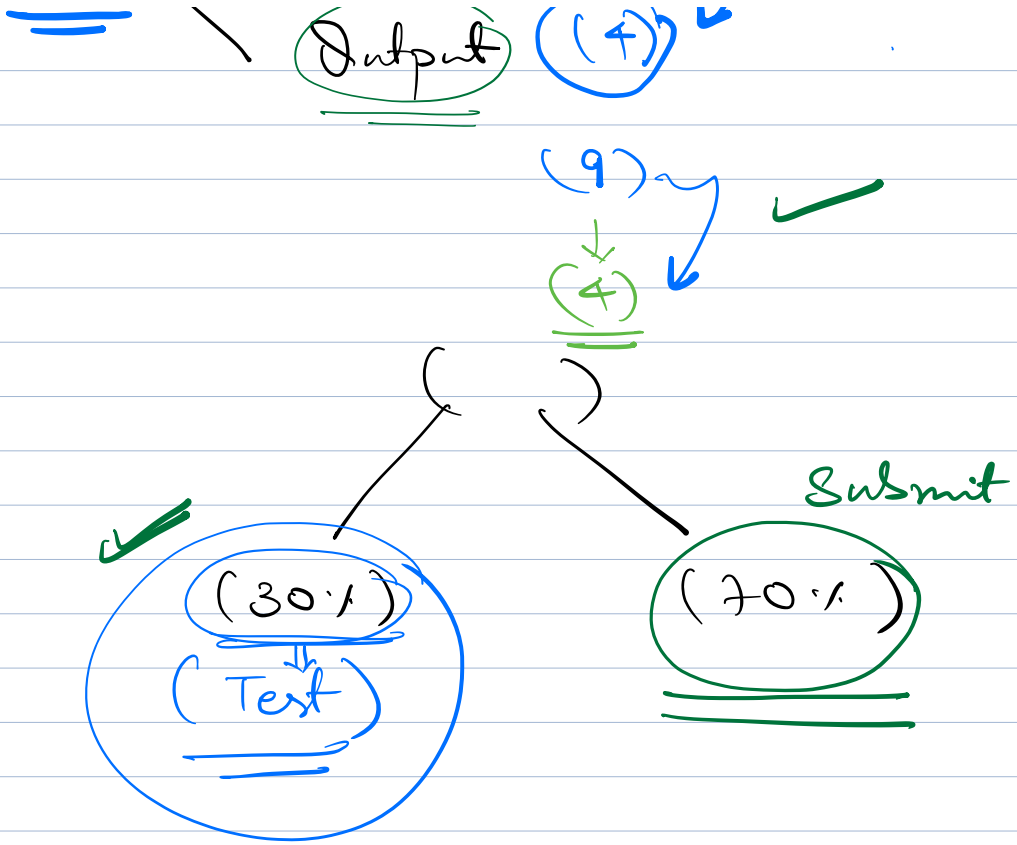
N = 10 → 1+2+3+4 ⇒ {4}

Doubt

1st → 4 8 5

2nd → 6 8 2

Code ✓ Input (10) ✓


Output
(4)
(9)
(4)
Submit
(30%)
Test
(70%)