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Section 2 - Guess the output

Snippet 1

```
Public class Nestedloopoutput{
    Public Static void main(String[]args){
    For(int i=1; i<=3; i++){
        For(int j=1; j<=2; j++){
            SOPrint(i+" "+j+" ");
    }
    System.out.Println();
    }
}
```

Snippet 1

i	j
1	1
1	2
2	1
2	2
3	1
3	2

Output

1 1 1 2

2 1 2 2

3 1 3 2

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Snippet 2

I i = 5 Total = 0 + 5 = 5
   i == 3 is Not True
   total = 5 - 1 = 4

II i = 4 Total = 4 + 4 = 8
   i == 3 is False
   total = 8 - 1 = 7

III i = 3 Total = 7 + 3 = 10
   i == 3 is True // Skip

IV i = 2 Total = 10 + 2 = 12
   i == 3 Not
   total = 12 - 1 = 11

i = 1 Total = 11 + 1 = 12
   i == 3 Not
   total = 12 - 1 = 11

guessed output = 11 ✓

Snippet 3

Count = 0 → Print 0 → Count 1 ; C == 3 is False
Count = 1 → Print 1 → Count 2 ; C == 3 is False
Count = 2 → Print 2 → Count 3 ; True, Break

guess o/p → 0, 1, 2

Snippet -4

i=1 : Print i=2
i=2 : Print i=3
i=3 : " i=4
i=4 " i=5

Output
1 2 3 4 5

Snippet -6

```
x = 5
y = ++x - x-- + --x + x++;
```

++x ⇒ x=6
x-- : x=6 → x=5
--x : x=4
x++ : x=4 → x=5

y = 6 - 6 + 4 + 4
= 8
O/P → 8

Snippet 5

i=1 : 1%2 == 0 False, Num=1-1=0
i=2 : 2%2 == 0 False; Num = 0-2
= -2
i=3 : 3%2 != 0 ; Num = -2-3 = -5
i=4 : 4%2 == 0 Num = -5+1 = -4
O/P = -4.

Snippet -7

a = 10 b = 5

Result = ++a * b-- --a + b++

++a → a = 11

b-- → b = 5 → b = 4

--a → a = 10

b++ → b = 4 → b = 5

11 x 5 - 10 + 4 = 55 - 6 = 49

O/P

⇒ 49

Snippet -8

Count += i++ - ++i

Count = Count + i++ - ++i

I i = 0

i++ → i = 0 → i = 1

++i → i = 2

Count = 0 + 0 - 2 = -2

II ⇒ i = 1

i++ → i = 1 → i = 2

++i → i = 3

Count = ~~0 + 2 - 3 = -3~~

= -2 + 1 - 3 = -4

III i = 3

i++ → i = 3 → i = 4

O/P = -4