

① What is the output of this code?

```
for i in range(2):
    print(" Printed by Outer loop: ")
    print(i)
    for j in range(50, 52):
        print(" Printed by Inner loop: ")
        print(j, end=" ")
    print()
```

Output:

Printed by Outer loop:  
0  
Printed by Inner loop:  
50 Printed by Inner loop:  
51 Printed by Outer loop:  
1  
Printed by Outer loop:  
0  
Printed by Inner loop:  
50 Printed by Inner loop:  
51

## Nested Loop

# structure of the output structure

outer loop  
`for i in range(2):`  
 Printed by Outer loop:  
0  
 Printed by Inner loop:  
50

for j in range(2):  
 print(j) ] → inner loop

Manual Tracking Table:

Iteration	i	j	output
1	0	0	0
2	0	1	1
3	1	0	0
4	1	1	1

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## Question

```
for i in range(2):
    print(" Printed by Outer loop: ")
    print(i)
    for j in range(50, 52):
        print(" Printed by inner loop: ")
        print(j, end=" ")
    print()
```

Output:

Printed by Outer loop:  
0  
Printed by Inner loop:  
50  
Printed by Inner loop:  
51  
Printed by Outer loop:  
1  
Printed by Inner loop:  
50  
Printed by Inner loop:  
51

Question:

```
for i in range(1,3):
    for j in range(1,3):
        print(i*j, end=" ")
```

print() → This is created a new line

Output

1	2
2	4

Question: for i in range(1,11):

```
for j in range(1,11):
    print(i*j, end=" ")
print()
```

Question: for i in range(1,6):

```
for j in range(1,6):
    print(i*j, end=" ")
print()
```

Output

1	2	3	4	5
2	4	6	8	10
3	6	9	12	15
4	8	12	16	20
5	10	15	20	25

Question:

rows = 5

```
for i in range(1, rows+1):
    for j in range(1, i+1):
        print(j, end=" ")
    print()
```

Output:

1
1 2
1 2 3
1 2 3 4
1 2 3 4 5

Question:

rows = 5

```
for i in range(1, rows+1):
    for j in range(1, i+1):
        print("*", end=" ")
    print()
```

*
**
***
****
*****

Question:

`rows = 5`

```
for i in range(1, rows+1):
    for j in range(1, i+1):
        print("5", end=" ")
    print()
```

Output

5  
5 5  
5 5 5  
5 5 5 5  
5 5 5 5 5

Question: `rows = 5`

```
for i in range(1, rows+1):
    for j in range(5, rows-i, -1):
        print(j, end=" ")
    print()
```

Output

5  
5 4  
5 4 3  
5 4 3 2  
5 4 3 2 1

## Class 2

find the Output:

```
for i in range(1,7):
    for j in range(1, i+1):
        print(j, end = " ")
    print()

for i in range(5, 0, -1):
    for j in range(1, i+1):
        print(j, end = " ")
    print()
```

find the Output:

$$\text{sum} = 10$$

for i in range(1,4):

$$\text{Sum} = \text{Sum} + 10$$

for j in range(1,4):

$$\text{sum} = \text{sum} + 20$$

for  $k$  in range(1A)

$$\text{sum} = \text{sum} + 10$$

```
print("Total sum: ", sum)
```

Output:

1030

— 1 —

start cast :-

Q) Find the Output:

```
my_strings = ["hello", "world", "python"]
```

for string in my\_strings:

for character in string:

print (@arr)

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```
my-strings = ["hello", "world", "python"]
for string in my-strings:
    for char in string:
        print(char, end = " ")
    print()
```

h e l l o  
w o r l d  
p y t h o n