

Day 200.

• Program NO : 1

```
void main() {
```

```
    int i;
```

```
    for(i = 1; i <= 3; i++) {
```

```
        for(i = 1; i <= 3; i++) {
```

```
            printf("%d ", i);
```

```
        } printf("\n");
```

```
    } printf("value of i = %d", i);
```

```
}
```

Program uses same variable for both the loop (inner & outer):

(Outer loop)

inner loop

3

i

i <= 3

i++

i

i <= 3

i++

2

i

1

1 <= 3 ✓

4

1

1 <= 3 ✓

1

↑

2

2 <= 3 ✓

2

common

3

3 <= 3 ✓

3

for

4

4 <= 3 ✗

both.

5

5 <= 3 ✗

(exit)

Output :- 1 2 3

and value for i = 5 now