

C PROGRAMMING

For Loop

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FOR LOOP

What is loop?

A loop is used for executing a block of statements repeatedly until a given condition returns false.

What is for loop?

A **for** loop is a repetition control structure that allows you to efficiently write a loop that needs to execute a specific number of times.

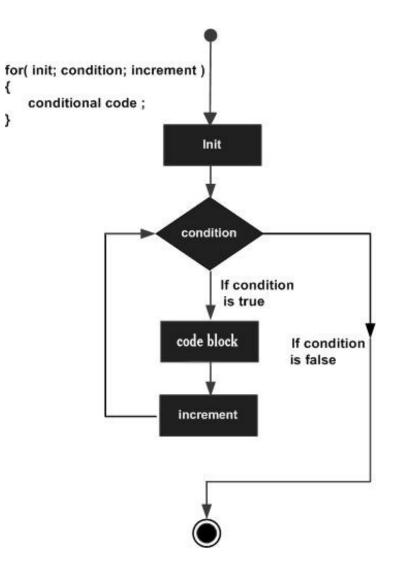
SYNTEX OF FOR LOOP

Syntax

for(initial value; condition; increment/decrement)

//code to be executed

FLOW DIAGRAM



Example of For loop

```
#include <stdio.h>
int main()
 int i;
 for (i=1; i<=10; i++)
    printf("%d\n", i);
 return 0;
```





NESTED LOOP

What is Nested Loop?

Nested loop means a loop statement inside another loop statement. That is why nested loops are also called as "loop inside loop".

SYNTEX OF NESTED LOOP

Syntax

```
for(initial value; condition; increment/decrement)
```

```
for(initial value; condition; increment/decrement)
```

```
//statement of inside loop
```

```
//statement of outer loop
```

Example of Nested loop

```
#include <stdio.h>
int main()
 for (int i=0; i<2; i++)
       for (int j=0; j<4; j++)
        printf("%d, %d\n",i ,j);
 return 0;
```



0, 0	
0, 1	
0, 2	
0, 3	
1, 0	
1, 1	
1, 2	
1, 3	

