LOOP IN C SHORT NOTES



FOR LOOP IN C

- The for loop in C language is used to iterate the statements or a part of the program several times.
- It is frequently used to traverse the dara structures like the array and linked list.
- When you know exactly how many times you want to loop through a black of code, use the for loop instead of a while loop:

Syntax of "for 100p":

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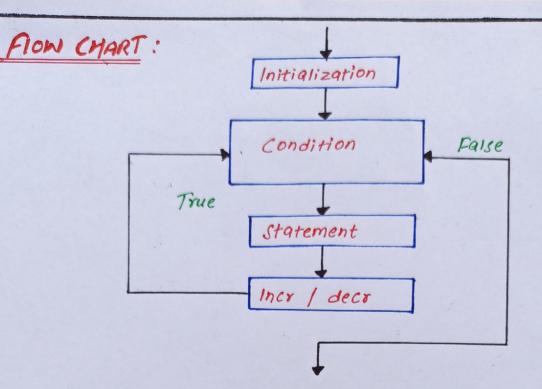
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Por 100p syntax

Por (initialization; condition;

increment/decrement) {

Il statement or code to be executed
}



Example:

```
// Author : @ Atul_ kumar
# include < Stdio.h >
int main ()
{
  int i;
  For (i=0;i<5;i++)
{
    Print F ("%d\n", i);
}
return 0;
}</pre>
```

OUTPUT:

Output

/tmp/cfeaflosyo.o

1
2
3

Continue -

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- · Statement 1 sets a variable before the loop starts (inti=0).
- Statement 2 defines the condition for the 100p to run (i must be less than 5). If the condition is true, the 100p will start over again, if it is false, the 100p will end.
- in the 100p has been executed.

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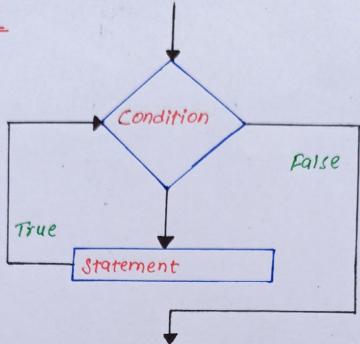
WHILE LOOP:

- · A while 100p in c programming repeatedly executes a target statement as long as a given condition is true.
- In general, a while loop allows a part of the code to be executed multiple times depending upon a given boolean condition.
- · While loop is also known as a pretested loop.
- · The while loop is mostly used in the case where the number of iterations is not known in advance.

Syntax:

Il Author: @ Atul_kumar While (Condition) {
Il Code to be executed
}





Example:

```
// Author: @Atu/_ kwmar
# include < Stdio.h >
  int main()
{
  int i = 1;
  while (i < = 10)
{
    Print F ("%d \n", i);
    i++; }
  return 0;
}</pre>
```

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DO - WHILE LOOP:

- Unlike for and while loops, which test the loop condition at the top of the loop.
- the do... While loop in C programming checks its condition at the bottom of the loop.
- · The do while loop is a post tested loop.

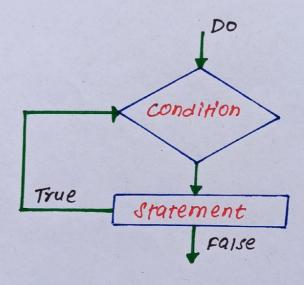
continue -

Ado... While loop is similar to a while loop, except the fact that it is guranteed to executed at least one time.

Syntax:

Il Author: @ Atul-komar do {
Il code to be executed
} while (condition);

Flowchart:



Example:

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```
# include < stdio.h>
int main()
{
int i = 1;
do{
    Print f ("%d \n", i);
    i++;
} while (i <=10);
return 0;
}
```