C_42 → Continue Statement in C
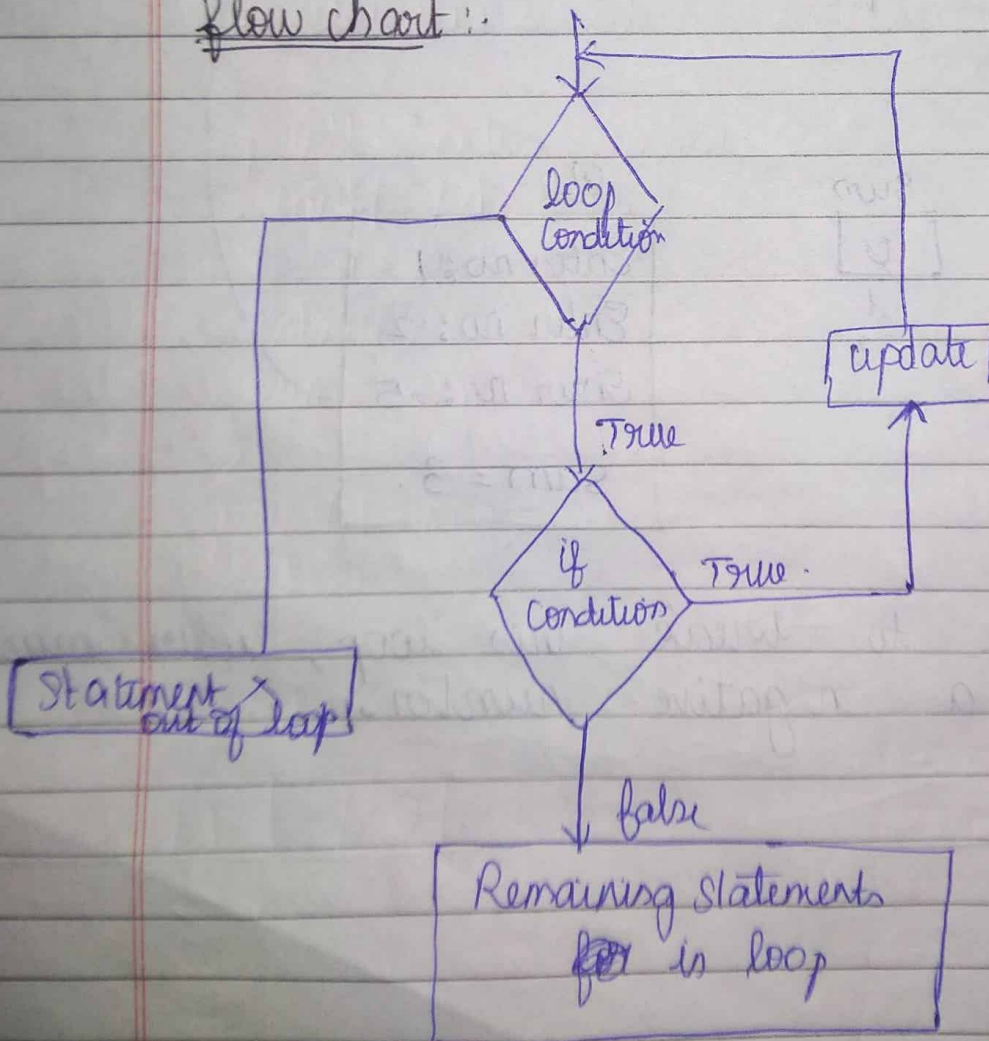
Continue :

* Continue is used to skip statements;

* Continue will not come out of loop instead control will go to the next iteration of loop.

* But when break encountered; then control will go out of the loop.

flow chart :-

loop Condition

True

update

if Condition

True.

Statement out of loop

false

Remaining statements for in loop

Program (1) (using for loop)

* user enter a number for 5 iterations and user should enter only +ve intiger. If negative intiger skip the statements or else continue the statments.

```c
void main()
{
    int i, a, sum =0;
    for (i=1; i<=5; i++)
    {
        printf (" Enter an integer :\n");
        scanf ("%.d ", &a);
        if (a<0)
        {
            continue;
        }
        sum = sum +a;
    }
    printf ("sum = %.d ", sum);
}
```

if(-10<0)
    Continue;

case 1

a	sum	i
1	0	1
2	1	2
-10	3	3
		4
-2		5
0		6✗

O/P

| Enter no: 1 |
| Enter no: 2 |
| Enter no :-10. |
| Enter no: -2 |
| Enter no : 0 |
| sum = 3. |

Program 2:- (using while loop)

⤷ assignment.

CODE 1:

```c
#include <stdio.h>
#include <stdlib.h>
/* 1 - continue statement */
//using for loop */
int main()
{
    int i,a,sum=0;
    for(i=1;i<=5;i++)
    {
     printf("Enter number:\n");
     scanf("%d",&a);
     if(a<0)
     continue;
     sum=sum+a;
    }
    printf("sum=%d",sum);
    getch();
}
/* since we give continue, even though if condition is true, it will go
to start of loop and all the number of iterations, that is until i=5, for
all 5 times we enter values.....*/
```

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```
Enter number:
1
Enter number:
2
Enter number:
-10
Enter number:
-2
Enter number:
0
sum=3
```

CODE 2:

```c
#include <stdio.h>
#include <stdlib.h>
/* 2 - continue statement */
//using wile loop with conditon */
int main()
{
    int i=0,a,sum=0;
    while(++i<=5) //condition with update as expression
    {
     printf("Enter number:\n");
     scanf("%d",&a);
     if(a<0)
     continue;
     sum=sum+a;
    }
    printf("sum=%d",sum);
    getch();
}
//same 1st programs with while loop.... //
```

```c
#include <stdio.h>
#include <stdlib.h>
/* 2 - continue statement */
//using wile loop with conditon */
int main()
{
    int i=1,a,sum=0; //int i=0 means while(++i<=5)
    while(i++<=5) //condition with update as expression
    {
     printf("Enter number:\n");
     scanf("%d",&a);
     if(a<0)
     continue;
     sum=sum+a;
    }
    printf("sum=%d",sum);
    getch();
}
//same 1st programs with while loop.... //
```

```
Enter number:
1
Enter number:
2
Enter number:
-10
Enter number:
-2
Enter number:
0
sum=3
```