



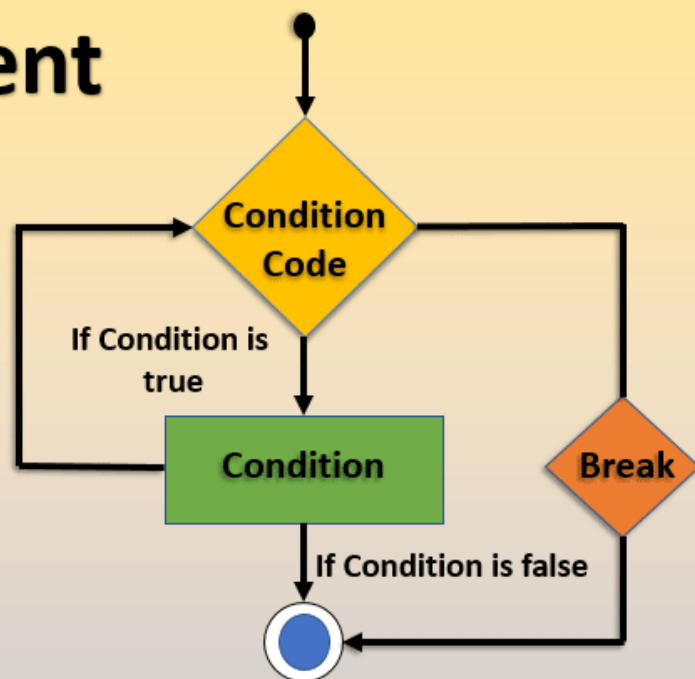
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# Break Statement in C++



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## Introduction to Break Statement in C

Break Statement in C is a loop control statement that is used (<https://www.educba.com/statements-in-c/>) to terminate the loop. There are two usages and the given statement is explained below.





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- **Inside a Switch Case:** If Break Statement in C is using inside a switch case (<https://www.educba.com/switch-case-in-powershell/>) after each switch case (<https://www.educba.com/switch-case-in-shell-scripting/>) then the break statement terminates a case after executing the case.

In general the break statements we used in the situations where we need to stop the loop execution based on the condition or not sure how many times the loop is to be iterate. If the break statements using inside the nested loop (<https://www.educba.com/nested-loop-in-c-plus-plus/>), then the break statement breaks the inner loop and starts executing the statement after the inner loop of the program control continue to the outer loop.

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### Syntax of the Break Statement:

```
// inside switch case or loop  
break;
```

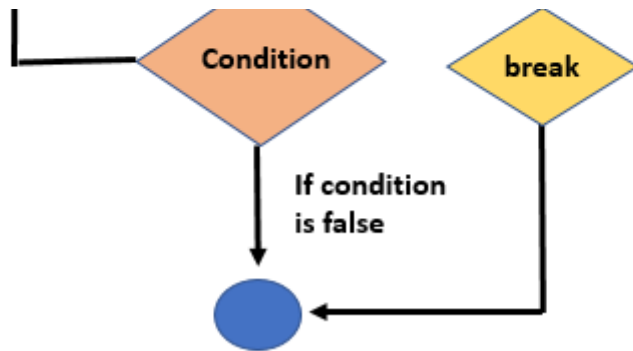
## Flowchart of Break Statement in C

Figure – Flowchart of the break statement





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## Examples to Implement Break Statement in C

Below are the different examples to implement in C language:

### Program Example #1

Break statement inside the for a loop

```
#include<stdio.h>

int main ()
{
    int co;
    for(co = 0; co < 10; co++)
    {
        printf("loop %d\n",co);
        if(co == 6)
            break;
    }
    printf("\n",co);
    printf("The loop terminat at co = %d", co);
}
```





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```
loop 0
loop 1
loop 2
loop 3
loop 4
loop 5
loop 6

The loop terminat at co = 6
```

## Program Example #2

Break statement inside the switch case

```
#include <stdio.h>

void main()
{
    char opt;
    printf("Enter the option \"A\", \"B\", \"C\" or \"D\" :");
    scanf( "%c", &opt );
    switch (opt)
    {
        case 'B':
            printf( "You have entered option B " );
            break;

        case 'A':
            printf( "You have entered option A " );
            break;
```





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```
printf ( "You have entered option C\n",  
break;  
default:  
printf ( "You have not entered option A, B, C, or D, wrong input  
");  
}  
}
```

The output of the above code:

```
Enter the option "A", "B", "C" or "D" :A  
You have entered option A
```

```
Enter the option "A", "B", "C" or "D" :H  
You have not entered option A, B, C, or D, wrong input
```

## Program Example #3

Break statement inside the nested loop (<https://www.educba.com/nested-loop-in-javascript/>), in nested case, it breaks only the inner loop, but not outer loop, as can be understood

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```
#include<stdio.h>

int main()
{
    int inner, outer;
    for( outer=0; outer <= 5; outer++)
    {
        for(inner=0; inner <= 5; inner++)
        {
            printf("outer = %d & inner = %d loop running\n",outer,inner);
            if(outer == 3 && inner == 2)
            {
                break;
            }
        }
    }
    printf("\n");
}
```





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The output of the above code:

```
outer = 0 & inner = 0 loop running
outer = 0 & inner = 1 loop running
outer = 0 & inner = 2 loop running
outer = 0 & inner = 3 loop running
outer = 0 & inner = 4 loop running
outer = 0 & inner = 5 loop running

outer = 1 & inner = 0 loop running
outer = 1 & inner = 1 loop running
outer = 1 & inner = 2 loop running
outer = 1 & inner = 3 loop running
outer = 1 & inner = 4 loop running
outer = 1 & inner = 5 loop running

outer = 2 & inner = 0 loop running
outer = 2 & inner = 1 loop running
outer = 2 & inner = 2 loop running
outer = 2 & inner = 3 loop running
outer = 2 & inner = 4 loop running
outer = 2 & inner = 5 loop running

outer = 3 & inner = 0 loop running
outer = 3 & inner = 1 loop running
outer = 3 & inner = 2 loop running

outer = 4 & inner = 0 loop running
outer = 4 & inner = 1 loop running
outer = 4 & inner = 2 loop running
outer = 4 & inner = 3 loop running
outer = 4 & inner = 4 loop running
outer = 4 & inner = 5 loop running

outer = 5 & inner = 0 loop running
outer = 5 & inner = 1 loop running
outer = 5 & inner = 2 loop running
outer = 5 & inner = 3 loop running
outer = 5 & inner = 4 loop running
outer = 5 & inner = 5 loop running
```

So as in the above output, when outer = 3 & inner = 2 the inner loop break and the execution continue to the outer loop for 4th iteration.

## Program Example #4

Break statement inside while loop

Consider the following example to use the break statement (<https://www.educba.com/break-statement-in-c/>) inside while loop.





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```
while(co < 10)
{
    printf("loop %d\n",co);
    if(co == 6)
        break;
    else
        co = co +1;
}
printf("\n",co);
printf("The loop terminat at co = %d", co);
return 0;
}
```

The output of the above code:

```
loop 0
loop 1
loop 2
loop 3
loop 4
loop 5
loop 6

The loop terminat at co = 6
```

## Program Example #5

Break statement inside the do-while loop



Consider the following example to use the break (<https://www.educba.com/break-in-c-sharp/>)

statement with a do-while loop





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```
int co = 0;
do
{
printf("loop %d\n",co);
if(co == 6)
break;
else
co = co +1;
}while(co < 10);
printf("\n",co);
printf("The loop terminat at co = %d", co);
return 0;
}
```

The output of the above code:

```
loop 0
loop 1
loop 2
loop 3
loop 4
loop 5
loop 6

The loop terminat at co = 6
```

## Program Example #6

Next, we write some of the c program examples with the break statement

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```
// search for key by traverse to array one by one element in loop
for (int indx = 0; indx <= (sizeof(a) / sizeof(a[0])) ; indx++) {
    if (a[indx] == key) {
        printf( "Element present at position : %d ", (indx + 1));
        // stop execution of the loop by break
        break;
    }
}

int main() {
    int a[] = { 11, 22, 33, 44, 55, 65 };
    // search for key 22
    int key = 22;
    // linearsearch function call to serach key 22
    linearsearch(a, key);
    return 0;
}
```

The output of the above code:

```
Element present at position : 2
```

## Program Example #7

Next, we write the c program example to accept the character from the user and count number of vowels entered by the user.





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```
int count=0,i;
for(i=1;i<=10;i++)
{
printf( "Enter a character \n" );
scanf( "%c", &inp );
fflush( stdin );
if( inp=='a' || inp=='e' || inp=='i' || inp=='o' || inp=='u' )
{
count = count+1;
}
}
printf("The total number of vowels entered are %d ", count);
return 0;
}
```

The output of the above code:

```
Enter a character
a
Enter a character
h
Enter a character
o
```





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```
1
Enter a character
d
Enter a character
k
Enter a character
l
The total number of vowels entered are 4
```

## Program Example #8

The above code we rewrite with break statement as in below c program

```
#include <stdio.h>
#include<stdio.h>
int main ()
{
    char inp, opt;
    int count=0,i;
    for(i=1;i<=10;i++)
    {
        printf( "Enter a character \n" );
        printf( "Enter ! if you want to stop \n" );
        scanf( "%c", &inp );
        fflush(stdin);
        if( inp=='a' || inp=='e' || inp=='i' || inp=='o' || inp=='u' )
        {
            count = count+1;
        }
        if( inp=='!' )
```





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```
printf("The total number of vowels entered are %d", count);  
return 0;  
}
```

The output of the above code:

```
Enter a character  
Enter ! if you want to stop  
a  
Enter a character  
Enter ! if you want to stop  
e  
Enter a character  
Enter ! if you want to stop  
h  
Enter a character  
Enter ! if you want to stop  
!  
The total number of vowels entered are 2
```

## Conclusion

The break keyword used brings out the program control from loop execution. There are two usages of the break statement in C programming (<https://www.educba.com/c-programming-matrix-multiplication/>) one is inside a loop and the second is inside a switch case (<https://www.educba.com/python-switch-case/>).

## Recommended Articles

This is a guide to Break Statement in C. Here we discuss Syntax, flowchart, and usage of break statement in C along with different examples and code implementation. You can also go through our other suggested articles to learn more—





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5. [Complete Guide to Control Statement in C++ \(https://www.educba.com/control-statement-in-c-plus-plus/\)](https://www.educba.com/control-statement-in-c-plus-plus/)
  6. [Types of Control Statement in JavaScript \(https://www.educba.com/control-statement-in-javascript/\)](https://www.educba.com/control-statement-in-javascript/)
  7. [Overview and Different Control Statement in Java \(https://www.educba.com/control-statement-in-java/\)](https://www.educba.com/control-statement-in-java/)
  8. [Guide to Top 6 Examples of Break in PHP \(https://www.educba.com/break-in-php/\)](https://www.educba.com/break-in-php/)

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