

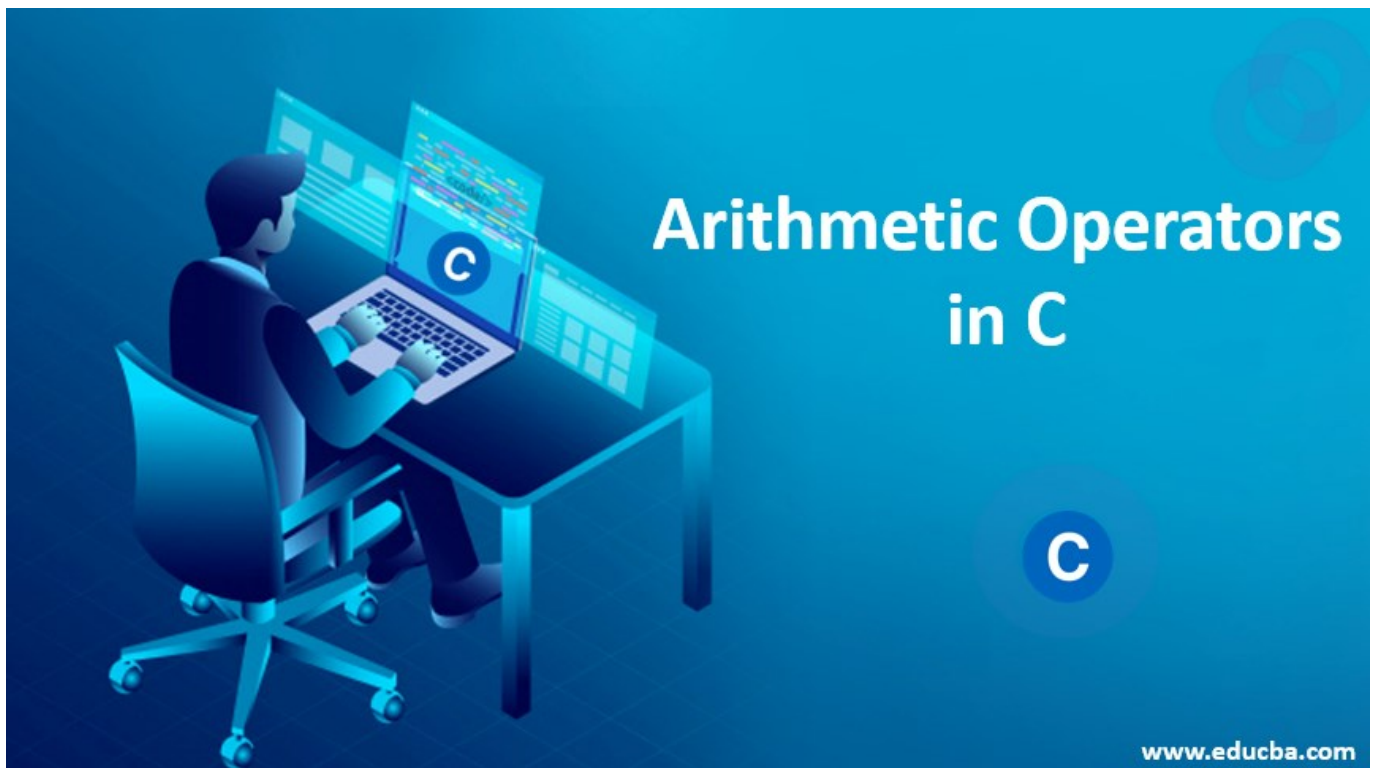


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Introduction to Arithmetic Operators in C

Arithmetic operators are used for performing mathematical operations. C supports these operators to perform various mathematical operations such as addition, subtraction, division, multiplication, etc.





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- **Addition Operator +** : This operator is used to add two operands. Suppose P and Q are two operands, this plus operators will add up these two operands. i.e. $P + Q$.
- **Subtraction Operator -** : This operator is used to subtract two operands. Suppose P and Q are two operands, then this minus operator will subtract the value of the second operand from the first operand. i.e. $P - Q$.
- **Multiplication Operator *** : This operator is used to multiply two operands. Suppose P and Q are two operands then this multiplication operator will multiply P with Q. i.e. $P * Q$.
- **Division Operator /** : This operator is used to numerator by the denominator. Suppose P and Q are two operands, this division operator divides the numerator by denominator. i.e. P / Q .
- **Modulus Operator %** : This operator is used to give the remainder of the division. Suppose P and Q are two operands then this modulus operator first divides the numerator by denominator and gives the remainder. i.e. $P \% Q$.
- **Increment Operator ++** : This operator is used to increment the value of the variable by 1. Suppose X is the operand, then this increment operator will add the value of P by 1.
- **Decrement Operator --** : This operator is used to decrement the value of the variable by 1. Suppose X is the operand, this decrement operator will decrement the value of P by 1.

Examples of Arithmetic Operators in C

The following tutorial is a guide to the examples of arithmetic operators.

Example #1

Program to use Addition (+) operator in C.





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```
#include <stdio.h>

int main()
{
    int P, Q, total;
    printf(" Enter the value of P: ");
    scanf("%d" ,&P);
    printf(" Enter the value of Q: ");
    scanf("%d",&Q);
    total = P + Q;
    printf("%d", total);
    return 0;
}
```

Output:

```
Enter the value of P: 3
Enter the value of Q: 6
9
```

Example #2

Program to use Subtraction (-) operator in C.

Code:

```
#include<stdio.h>
#include<conio.h>
int main()
```





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```
printf(" Enter the value of Q: ");
scanf("%d", &Q);
total = P - Q;
printf("%d", total);
return 0;
}
```

Output:

```
Enter the value of P: 6
Enter the value of Q: 3
3
```

Example #3

Program to use multiplication * arithmetic operator in C.

Code:

```
#include<stdio.h>
#include<conio.h>
int main()
{
    int P, Q, total;
    printf(" Enter the value of P: ");
    scanf("%d", &P);
    printf(" Enter the value of Q: ");
    scanf("%d", &Q);
```





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Output:

```
Enter the value of P: 6
Enter the value of Q: 3
18
```





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```
#include<stdio.h>
#include<conio.h>
int main()
{
    int P, Q, total;
    printf(" Enter the value of P: ");
    scanf("%d", &P);
    printf(" Enter the value of Q: ");
    scanf("%d", &Q);
    total = P / Q;
    printf("%d", total);
    return 0;
}
```

Output:

```
Enter the value of P: 6
Enter the value of Q: 3
2
```

Example #5

Program to use modulus % arithmetic operator in C.

Code:

```
#include<stdio.h>
```





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```
printf(" Enter the value of P: ");
scanf("%d", &P);
printf(" Enter the value of Q: ");
scanf("%d", &Q);
total = P % Q;
printf("%d", total);
return 0;
}
```

Output:

```
Enter the value of P: 10
Enter the value of Q: 3
1
```

Example #6

Program to use Increment ++ arithmetic operator in C.

Code:

```
#include<stdio.h>
#include<conio.h>
int main()
{
    int P;
    printf("Enter the value of P: ");
    scanf("%d",&P);
```





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Output:

```
Enter the value of P: 10
11
```

Example #7

Program to use Decrement — arithmetic operator in C.

Code:

```
#include<stdio.h>
#include<conio.h>
int main()
{
    int P;
    printf("Enter the value of P: ");
    scanf("%d",&P);
    P--;
    printf("%d",P);
    return 0;
}
```

Output:

```
Enter the value of P: 10
9
```





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arithmetic operators and examples. You may also have a look at the following articles to learn more –

1. [Arithmetic Operators in Python \(https://www.educba.com/arithmetic-operators-in-python/\)](https://www.educba.com/arithmetic-operators-in-python/)
2. [Arithmetic Operators in Java \(https://www.educba.com/arithmetic-operators-in-java/\)](https://www.educba.com/arithmetic-operators-in-java/)
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