

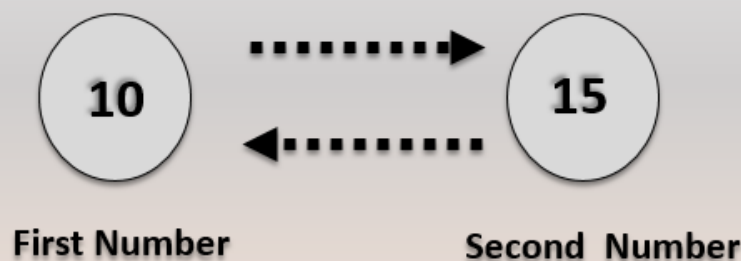


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Swapping In C



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Overview of Swapping in C

C language is the base language for all programming languages. Like other programming languages, there are various inbuilt functions available in C language. Inbuilt functions are used to solve complex problems quickly and make code easy. In order to built-in functions, C language also allows us to create customized functions to develop logic. In this article, we are





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Suppose there are two variables, A and B. Variable A exchanges its data with variable B and variable B exchange its data with B. Swapping can be done by using two variables or three variables, it depends on the requirement. In this section, we are going to discussed how to swap two numbers in C and three numbers in C.

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Swap Two Numbers in C

In this section, we are going to discussed how to swap two numbers in C language with the help of example and explanation.

Example: In the following C program, the user can enter 2 numbers he wishes to swap, then the result will be displayed on the screen. The program for swapping two numbers in C is as follows.

Code:

```
#include<stdio.h>
#include<conio.h>
int main()
{
    int first_number, second_number, temp;
    printf("Enter first number: "); //allow user to add first numb
    scanf("%d",&first_number);

    printf("Enter second number: "); //allow user to add second number
```





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```
temp = first_number; //first number is assigned to temp
first_number = second_number; //second number is assigned to first
number
second_number = temp; //first number is assigned to second number
printf("After swapping \n");
printf("First number: %d \n", first_number);
printf("Second number: %d \n", second_number);
return 0;
}
```

Output:

Explanation of the above program: To swap two numbers, first, we initialize two variables i.e. first_number and second_number. With these two numbers, a temporary variable named temp is also initialized to store a number temporarily. Then scan function allows the user to assign numbers according to their wish. Then to swap numbers, we use the temp variable for storing numbers temporarily. First, we transfer first_number to temp variable and make first_number



empty. As first_number is empty, we assigned second_number to the first number. Like this



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Note: statement mentioned after // Is considered as a comment.
Comments are used to help people to understand the code easily.

Swap Three numbers in C



In this section, we are going to discussed how to swap 3 numbers in C language with the help



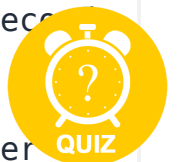
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swapping three numbers in C is as follows.

Code:

```
#include<stdio.h>
#include<conio.h>
int main()
{
    int first_number, second_number, third_number, temp;
    printf("Enter first number: "); //allow user to add first number
    scanf("%d",&first_number);
    printf("Enter second number: "); //allow user to add second number
    scanf("%d",&second_number);
    printf("Enter third number: "); //allow user to add third number
    scanf("%d",&third_number);
    printf("Before swapping \n");
    printf("First number: %d \n", first_number);
    printf("Second number: %d \n", second_number);
    printf("Third number: %d \n", third_number);
    temp = first_number; //first number is assigned to temp
    first_number = second_number; //second number is assigned to first
    number
    second_number = third_number; //third number is assigned to second
    number
    third_number = temp; //first number is assigned to third number

    printf("After swapping \n");
```





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```
}
```

Output:

Explanation of the above program: The concept for swapping three numbers is the same as two numbers only difference is exchanging numbers. To swap three numbers, first, we initialize three variables i.e. first_number, second_number, and third_number. With these three numbers, a temporary variable named temp is also initialized to store a number temporarily. Then scan allows the user to assigned numbers according to their wish. Then to swap numbers, we use the temp variable for storing numbers temporarily. First, we transfer the first number to the temp variable and make the first number empty. As the first number is empty, we assigned the second number to the first number and make the second number empty. This second number is transferred to the first number. As the second number is empty, we assigned the third number to the second number. Then this third number is transferred to the second number. In the end, as a third number is now empty, we transfer the first number that is stored in the temp variable is assigned to third. This is how we swap 3 numbers using the temp variable.



Recommended Articles

This is a guide to Swapping in C. Here we discuss how the use of C programming language



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