

Swap Two Numbers

Here, we will see how to swap two numbers using a C++ program. Below are the examples:

Input : $a = 2, b = 3$

Output : $a = 3, b = 2$

Input : $a = 0, b = 1$

Output : $a = 1, b = 0$

Using 3rd Variable

The idea is simple in this approach:

1. Assign a to a temp variable: $\text{temp} = a$
2. Assign b to a: $a = b$
3. Assign temp to b: $b = \text{temp}$

Below is the C++ program to implement the above approach:

```
// C++ program to swap two
// numbers using 3rd variable
#include<bits/stdc++.h>
using namespace std;

// Driver code
int main()
{
    int a = 2, b = 3;

    cout << "Before swapping a = " <<
         a << " , b = " << b << endl;
    int temp;
    temp = a;
    a = b;
    b = temp;
    cout << "After swapping a = " << a <<
```

```
        " , b = " << b << endl;  
    return 0;  
}
```

Output

```
Before swapping a = 2 , b = 3  
After swapping a = 3 , b = 2
```