

PASSING PARAMETERS BY REFERENCES IN C++

http://www.tutorialspoint.com/cplusplus/passing_parameters_by_references.htm

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We have discussed how we implement **call by reference** concept using pointers. Here is another example of call by reference which makes use of C++ reference:

```
#include <iostream>
using namespace std;

// function declaration
void swap(int& x, int& y);

int main ()
{
    // local variable declaration:
    int a = 100;
    int b = 200;

    cout << "Before swap, value of a :" << a << endl;
    cout << "Before swap, value of b :" << b << endl;

    /* calling a function to swap the values.*/
    swap(a, b);

    cout << "After swap, value of a :" << a << endl;
    cout << "After swap, value of b :" << b << endl;

    return 0;
}

// function definition to swap the values.
void swap(int& x, int& y)
{
    int temp;
    temp = x; /* save the value at address x */
    x = y;    /* put y into x */
    y = temp; /* put x into y */

    return;
}
```

When the above code is compiled and executed, it produces the following result:

```
Before swap, value of a :100
Before swap, value of b :200
After swap, value of a :200
After swap, value of b :100
```