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

int main() {
    int a = 5;
    int b = 7;

    a = a ^ b;
    b = a ^ b;
    a = a ^ b;
    cout << a << endl; // Output: 7
    cout << b << endl; // Output: 5

    return 0;
}
```

Swap in C++

Initial Values:

```
a = 5 (0101 in binary)
b = 7 (0111 in binary)
```

XOR Swap Steps:

Ste	ep	Expression	Value (Binary)	Explanation
a = a b	a ^	a = 5 ^ 7	$0101 \land 0111 = 0010 \rightarrow a = 2$	
b		b = 2 ^ 7	$0010 \land 0111 = 0101 \rightarrow b = 5$	
a = a	a ^	a = 2 ^ 5	$0010 \land 0101 = 0111 \rightarrow a = 7$	

∜ Final Values:

$$a = 7$$

 $b = 5$

7 5