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| **Swap in C++** | |
| #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;  } | Initial Values: a = 5 (0101 in binary)  b = 7 (0111 in binary) 🧮 XOR Swap Steps:  | **Step** | **Expression** | **Value (Binary)** | **Explanation** | | --- | --- | --- | --- | | a = a ^ b | a = 5 ^ 7 | 0101 ^ 0111 = 0010 → a = 2 |  | | b = a ^ b | b = 2 ^ 7 | 0010 ^ 0111 = 0101 → b = 5 |  | | a = a ^ b | a = 2 ^ 5 | 0010 ^ 0101 = 0111 → a = 7 |  |  ✅ Final Values: a = 7  b = 5 |
| 7  5 | |