This C++ program swaps the values of two integer variables, a and b, without using a temporary variable. It uses arithmetic operations to achieve the swap:

1. a is added to b and stored in a (a = a + b;)

2. The new value of a is then subtracted from b and stored in b (b = a - b;)

3. Finally, the new value of b is subtracted from a and stored in a (a = a - b;)

The program outputs the values of a and b before and after the swap, demonstrating the result.