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#include <iostream>
#include <numeric>
#include <algorithm>
#include <iterator>
#include <vector>

using namespace std;

int main() {
    int i = 35, j = 13;

    cout << gcd(i, j) << ", " << lcm(i, j) << "\n";

    i = 8;
    j = 12;

    cout << gcd(i, j) << ", " << lcm(i, j) << "\n";

    vector<int> num1 { 6, 3, 8, 12, 24, 13, 5, 35 };
    vector<int> out;

    //Use it as a binary predicate
    adjacent_difference(begin(num1), end(num1), back_inserter<vector<int>>(out),
        &std::gcd<int, int>);

    copy(begin(out), end(out), ostream_iterator<int>(std::cout, " "));
    cout << "\n";

    return 0;
}
```