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

using namespace std;

int main() {
    vector<int> numbers {10, 11, 0, 1, 2, 3, 3, 4, 5, 6, 6, 7, 8, 9, 10, 10, 10, 11};

    auto it = adjacent_find(begin(numbers), end(numbers));

    cout << "The number " << *it << " occurs at least twice in a row\n";

    vector<int> values {7, 2, 4};

    it = find_first_of(begin(numbers), end(numbers), begin(values), end(values));

    cout << "Found " << *it << " first\n";

    vector<int> seq {10, 11};

    it = find_end(begin(numbers), end(numbers), begin(seq), end(seq));

    cout << "last occurrence of 10, 11 found at position: " <<
        distance(begin(numbers), it) << "\n";

    return 0;
}
```