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

using namespace std;

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

    copy(begin(v), end(v), back_inserter(v_copy));

    copy(begin(v_copy), end(v_copy), ostream_iterator<int>(cout, " "));
    cout << "\n";

    v_copy.clear();

    copy_if(begin(v), end(v), back_inserter(v_copy), [](int i) { return i%3 == 0;});

    copy(begin(v_copy), end(v_copy), ostream_iterator<int>(cout, " "));
    cout << "\n";

    auto it = begin(v);
    advance(it, 3);
    copy_n(it, 5, back_inserter(v_copy));

    copy(begin(v_copy), end(v_copy), ostream_iterator<int>(cout, " "));
    cout << "\n";

    return 0;
}
```