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

using namespace std;

int main() {

    vector<int> i {0, 1, 2, 3, 4, 5, 6, 7};
    for_each(begin(i), end(i), [](const auto& i){cout << i << " ";});
    cout << "\n";


    rotate(begin(i), begin(i) + 2, end(i));

    for_each(begin(i), end(i), [](const auto& i){cout << i << " ";});
    cout << "\n";

    rotate_copy(rbegin(i), rbegin(i) + 5, rend(i), ostream_iterator<int>(cout, " "));
    cout << "\n";

    return 0;
}
```