

Laborator 7

2. Generati un vector de numere aleatoare in plaja 0-100. Afisati toate numerele divizibile cu 3 din container si pozitia lor in container. (Vezi ex. 2)

```
#include <iostream>
#include <vector>
#include <algorithm>
using namespace std;

bool div_3 (int n);

int main() {
    typedef vector<int> IntVec;
    IntVec v (100);
    generate(v.begin(), v.end(), []() {
        return rand() % 100;
    });
    for (int i = 0; i < v.size(); i++) {
        cout<<"element: "<<v[i]<<" - pozitia: " << i << "\n";
    }
    IntVec::iterator iter=v.begin();
    while (iter != v.end()){
        iter = find_if (iter, v.end(), div_3);
        if (iter != v.end()) {
            cout<< "\nValoarea "<< *iter<< " pozitia "<< (iter - v.begin() + 1) <<
endl;
            iter++;
        }
    }
}

bool div_3 (int n) {
    return n % 3 ? 0 : 1;
}
```