#include<iostream>

#include<vector>

#include<list>

using namespace std;

//STL - Standart Template Library

void main() {

//vector<int>v;

//cout << v.capacity() << endl;

//for (size\_t i = 0; i < 10; i++)

//{

// v.push\_back(i + 1);

//}

//cout << v[2] << endl;

//cout << v.at(2) << endl;

/\*cout << v.capacity() << endl;

cout << v.size() << endl;

for (size\_t i = 0; i < v.size(); i++)

{

cout << v[i] << " ";

} cout << endl;\*/

//vector<int>v;

//v.push\_back(10);

//v.push\_back(11);

//v.push\_back(12);

//v.push\_back(13);

//v.push\_back(14);

//for (size\_t i = 0; i < v.size(); i++)

//{

// cout << v[i] << " ";

//} cout << endl;

//int index = 0;

//cin >> index;

//v.erase(v.begin() + index);

////v.erase(v.end() - index);

////v.clear();

//if (v.empty()) {

// cout << "No elements" << endl;

//}

//else {

// for (size\_t i = 0; i < v.size(); i++)

// {

// cout << v[i] << " ";

// } cout << endl;

//}

//v.insert(v.begin() + 1, 555);

//v.insert(v.begin() + 2, {22,33,44,55});

//v.insert(v.end() -2, -10);

//v.pop\_back();

/\*v.clear();

cout << "size : " << v.size() << endl;

cout << "capacity : " << v.capacity() << endl;\*/

/\*for (size\_t i = 0; i < v.size(); i++)

{

cout << v[i] << " ";

} cout << endl;\*/

/\*vector<int>v(100);

v.push\_back(10);

v.push\_back(11);

v.push\_back(12);

v.push\_back(13);

v.push\_back(14);\*/

/\*cout << v.capacity() << endl;

v.shrink\_to\_fit();

cout << v.capacity() << endl;

v.shrink\_to\_fit();

cout << v.capacity() << endl;\*/

/\*vector<int>v1;

v1.push\_back(10);

v1.push\_back(88);

v1.push\_back(11);

v1.push\_back(77);

v1.push\_back(55);

v1.push\_back(66);

v1.push\_back(11);

v1.push\_back(12);

vector<int>v2;

vector<int>::iterator begin = v1.begin();

vector<int>::iterator end = v1.end();

v2.assign(v1.begin() + 1, v1.begin() + 5);

for (size\_t i = 0; i < v2.size(); i++)

{

cout << v2[i] << " ";

} cout << endl;\*/

//vector<float> v;

//

//for (size\_t i = 0; i < 20; i++)

//{

// v.push\_back(i + 1);

//}

//

//list<int>mylist;

//

//mylist.assign(v.begin(), v.end());

//for (auto i = v.begin(); i!=v.end(); i++)

//{

// cout << \*i << endl;

//}

//v.resize(10);

//

//for (auto i : v) {

// cout << i << endl;

//}

//cout << v.capacity() << endl;

//v.reserve(200);

//cout << v.capacity() << endl;

//list<int>mylist;

//for (size\_t i = 0; i < 5; i++)

//{

// mylist.push\_back(i + 10);

//}

//for (auto i = mylist.begin(); i != mylist.end(); i++)

//{

// cout << \*i<< endl;

//}

//

//

//for (auto item : mylist) {

// cout << item << endl;

//}

//

//Student name, surname, age

//

//Group vector<Students> students;

//AddStudent

//ShowAll

//

}