//vector互换容器

#include<iostream>

using namespace std;

#include<string>

#include<vector>

//基本使用

void print(vector<int>& v) {

for (vector<int>::iterator it = v.begin(); it != v.end(); it++) {

cout << \*it << " ";

}

cout << endl;

}

void test01() {

vector<int>v1;

for (int i = 0; i < 10; i++) {

v1.push\_back(i);

}

print(v1);

vector<int>v2;

for (int i = 10; i > 0; i--) {

v2.push\_back(i);

}

print(v2);

cout << "交换后" << endl;

v1.swap(v2);

print(v1);

print(v2);

}

//实际用途

//巧用swap可以收缩内存空间

void test02() {

vector<int>v;

for (int i = 0; i < 100000; i++) {

v.push\_back(i);

}

cout << "v的容量：" << v.capacity() << endl;

cout << "v的大小" << v.size() << endl;

v.resize(3);//此时我让v的大小变成3，但此时v的容量还是13000多，过于浪费

//此时可以巧用swap收缩内存

vector<int>(v).swap(v);

cout << "v的容量：" << v.capacity() << endl;

cout << "v的大小" << v.size() << endl;

}

int main() {

//test01();

test02();

system("pause");

return 0;

}