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#include <iostream>
#include <vector>
#include <list>
#include <string>
#include <map>
#include <set>

using namespace std;

void exercice_1(){
    int i;
    vector<float> v1,v2;

    for(i=0; i<10; i++){
        v1.push_back(0.1*i);
    }

    v2 = v1;

    // NOTE: il faut sauver la taille car celle-ci
    // va changer `a l'appel de pop_back();
    int s = v2.size();
    for(i=0; i<s/2; i++)
        v2.pop_back();
}

void exercice_2(){
    int i;
    char c[10] = {'a','b','c','d','e','f','g','h','i','j'};
    list<char> c1, c2;
    list<char>::iterator itc;
    for(i=0; i<10; i++)
        c1.push_back(c[i]);

    c2 = c1;

    itc = c2.begin();
    for(i=0; i<c2.size()/2; i++)
        itc++;

    c2.erase(c2.begin(), itc);
}

void exercice_3(){
    set<string> s;
    set<string>::iterator itc;
    s.insert("e3");
    s.insert("e1");
    s.insert("e2");
    s.insert("e4");
    s.insert("e5");
    s.insert("e6");
    cout<<"ok"<<endl;
    for (itc=s.begin();itc!=s.end();itc++)
        cout << *itc<<endl;
}

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    itc=s.begin();
    s.erase(itc);
    itc=s.begin();
    s.erase(itc);
    for (itc=s.begin();itc!=s.end();itc++)
        cout << *itc<<endl;
}

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void exercice_4(){
    map<string, string> agenda;
    map<string, string>::iterator itc;
    agenda["Aristide"] = "5060655";
    agenda["raoul"] = "6444433";
    agenda["Paul"] = "5444433";
    for (itc=agenda.begin();itc!=agenda.end();itc++)
        cout << itc->first<< itc->second<<endl;

    for (itc=agenda.begin();itc!=agenda.end();itc++)
        if (itc->second[0]=='5')
            agenda.erase(itc);

    for (itc=agenda.begin();itc!=agenda.end();itc++)
        cout << itc->first<< itc->second<<endl;
}

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void exercice_5(){
    int i;
    string s[5] = {"abc", "bbaa", "bb", "jhfds", "aaa"};
    vector<string> v;

    for(i=0; i<5; i++)
    {
        v.push_back(s[i]);
        cout << v[i] << " ";
    }
    cout << endl;

    sort(v.begin(), v.end());

    for(i=0; i<5; i++)
        cout << v[i] << " ";
    cout << endl;
}

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void exercice_6(){
    list<string> l;
    list<string>::iterator it;

    l.push_back("il"); l.push_back("fait"); l.push_back("beau");

    for(it=l.begin(); it!=l.end(); it++)
        cout << *it << " ";
    cout << endl;
}

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it = find(l.begin(), l.end(), "beau");

if(it != l.end())
    l.insert(it, "tres");

for(it=l.begin(); it!=l.end(); it++)
    cout << *it << " ";
cout << endl;
}

int main(){
    exercice_1 ();
    exercice_2 ();
    exercice_3 ();
    exercice_4 ();
    exercice_5 ();
    exercice_6 ();
    return 0;
}
```