#include <string>

#include <vector>

#include <set>

using namespace std;

string solution(vector<string> participant, vector<string> completion) {

string answer = "";

multiset<string> completion\_set;

vector<string>::iterator itr;

for (itr = completion.begin(); itr != completion.end(); ++itr) {

completion\_set.insert(\*itr);

}

for (itr = participant.begin(); itr != participant.end(); ++itr) {

multiset<string>::iterator found = completion\_set.find(\*itr);

if (found != completion\_set.end()) {

completion\_set.erase(found);

continue;

}

else {

answer = \*itr;

break;

}

}

return answer;

}