```cpp
#include<iostream>
#include<fstream>
#include<cstdlib>
using namespace std;
class Student{
public:
    //add your function
    Student():numClass(0),name(""){};
    void addc(string c);
    bool checkc(string c);
    void getname(string n){name = n;};
    void getnumclass(int nc){numClass = nc;};
    void newc(){classList = new string[numClass];};
    string oname();
private:
    string name;
    int numClass;
    string *classList;
    int i=0;
};
void Student::addc(string c){
    classList[i] = c;
    ++i;
}
string Student::oname(){
    return name;
}
bool Student::checkc(string c){
    for(int j=0 ; j<numClass ; ++j){
        if(c == classList[j]){
            j = 0;
            return true;
        }
    }
    return false;
}
int main()
{
    //Student *studentList;
    //string *classList;
    int nums=0, numc=0;
    ifstream ifs;
    ofstream ofs;
    ifs.open("input3.txt");
    ofs.open("output1.txt");
    if(ifs.fail()){
```

```
47:         cout<<"Can not open input file";
48:         exit(1);
49:     }
50:     if(ofs.fail()){
51:         cout<<"Can not open ouput file";
52:         exit(1);
53:     }
54:     ifs>>nums;
55:     Student *studentList = new Student[nums];
56:     ifs>>numc;
57:     string *cclassList = new string[numc];
58:     for(int i=0 ; i<numc ; ++i){
59:         string c;
60:         ifs>>c;
61:         cclassList[i] = c;
62:     }
63:     for(int i=0 ; i<nums ; ++i){
64:         string namee;
65:         ifs>>namee;
66:         int numsc=0;
67:         ifs>>numsc;
68:         studentList[i].getname(namee);
69:         studentList[i].getnumclass(numsc);
70:         studentList[i].newc();
71:         for(int j=0 ; j<numsc ; ++j){
72:             string cn;
73:             ifs>>cn;
74:             studentList[i].addc(cn);
75:         }
76:     }
77:     for(int i=0 ; i<numc ; ++i){
78:         ofs<<"Class : "<<cclassList[i]<<endl;
79:         ofs<<"    ";
80:         for(int k=0 ; k<nums ; ++k){
81:             if(studentList[k].checkc(cclassList[i])){
82:                 string nn = studentList[k].oname();
83:                 ofs<<nn<<" ";
84:             }
85:         }
86:         ofs<<endl;
87:     }
88:     ifs.close();
89:     ofs.close();
90:     cout<<"Success";
91:     return 0;
92: }
```