#include <string>

using namespace std;

class Person

{

public:

friend class Student;

Person( const char\*n,int a){

age = a;

name = const\_cast<char\*>(n);

};

~Person() {};

void show(){

cout << "名字:" << name << "年龄：" << age << endl;

};

public:

char \*name;

int age;

};

class Student :public Person

{

public:

Student(const char\*n, int a, string i, int s):Person(n,a) {

ID = i;

score = &s;

};

~Student() {};

void show(){

cout << "名字:" << name << "年龄：" << age << "id" << ID;

};

void inputScore() {

int s1, s2;

s1 = \*score;

for (int i = 0; i <s1; i++)

{

cin >> s2;

score = &s2;

}

}

private:

string ID;

int \* score;

};

int main(int argc, char \*\*argv) {

Person \*p1;

Person zhangsan("zhangsan", 18); //Person对象的姓名为zhangsan，年龄为18

p1 = &zhangsan;

p1->show();//展示zhangsan的姓名和年龄

p1 = new Student("lisi", 19, "20190001", 2);// Student对象的姓名为lisi，年龄为19，学号为20190001，总共有两个成绩

((Student\*)p1)->inputScore();//输入Student对象的两个成绩的分数

p1->show();//展示Student对象的姓名、年龄和学号

delete p1;

return 0;

}