

《程序设计 I》期末考试试题(A)

任课教师： 肖菁、吴维刚 考试形式： 闭卷 考试时间： 2 小时

年级： 09 专业： 计科、网工、信安 姓名： _____ 学号： _____ 成绩 _____

1. Single Choice Questions. 20points.

- 1) B B A B B
- 6) D B A B C
- 11) D D B A B
- 16) C A C B A

2. Mistakes identification. 20points.

1)

Line 5): int novowels =0; ~~//int novowels;~~

Line 6): for(int x =0; x<strlen(text); x++)~~//for(int x =0; x<=strlen(text); x++)~~

Line 7): if (text[x]=='a' || text[x]=='e' || text[x]=='i' || text[x]=='o' || text[x]=='u'); ~~//if(text[x]== 'a' || 'e' || 'i' || 'o' || 'u');~~

2)

Line 16): ~~//return 0;~~

Line 32): int age; ~~//int age = 0;~~

3. Program output analysis. 20points.

1)

1	1
1	2
2	3

2)

The result is:

15=3*5

3)

```
Constructing a window.  
Constructing a window.  
Constructing a window.  
Constructing a program.  
This is a window, with id: 0, and size :0  
This is a window, with id: 1, and size :1
```

4. Fill-in-the-blank questions. 20points.

1)

t/10

t/10

2)

number/max_power>=base;

left_power>=right_power;

(number/left_power)%base;

5. Programming design. 20points.

```
#include <iostream>
#include <string>
#include <fstream>
using namespace std;

class Addressbook {
public:
    Addressbook(){
        for (int i=0; i<3; i++)
        {
            names[i]="";
            phone[i]="";
            address[i]="";
        }
    }

    Addressbook(string names[],string phone[],string address[])
    {
        for (int i=0; i<3; i++)
        {
            this->names[i]=names[i];
            this->phone[i]=phone[i];
            this->address[i]=address[i];
        }
    }

    void prtToFile(ofstream &output){
        for (int i=0; i<3; i++){
            output<<names[i]<<" " <<phone[i]<<" " <<address[i]<<" " <<endl;
        }
    }

    void prtToScn(){
        for (int i=0; i<3; i++){
            cout<<names[i]<<" " <<phone[i]<<" " <<address[i]<<" " <<endl;
        }
    }

    // can add accessors and mutators here
private:
    string names[3];
    string phone[3];
    string address[3];
};

int main()
{
    string n[3];
    string p[3];
```

```

string a[3];
for (int i=0; i<3; i++){
    cout<<"Please input your friend's information: "<<endl;
    cin>>n[i]>>p[i]>>a[i];
}
Addressbook adb(n,p,a);
ofstream output;
output.open("output.txt");
adb.prtToFile(output);
output.close();
adb.prtToScn();
return 0;
}

```