计算机科学系 2010 上学期

《程序设计 I》期末考试试题(A)

任课教师: 吴维刚、刘聪、舒忠梅 考试形式: 闭卷 考试时间: 2 小时年级: 10 专业: 计科、网工、信安

1. Single Choice Questions. 20points.

- 1) CCBAA
- 6) CBBBD
- 11) ACDCC
- 16) ACCDC

2. Mistakes identification. 20points.

1)	2)
Line 4): incorrect return type.	Line 5): i is not declared
Line 15): m, n are not initialized.	Line 9): i <= length should be i <length< td=""></length<>
	Line 10): == should be !=

3. Program output analysis. 20points.

1)	2)
num = 1 result = 2	Number of loops: 5
num = 3 result = 6	
num = 9 gint = 2	

4. Fill-in

1)	2)
(1) s=0;	(1) j <i< th=""></i<>
(2) c=a+b;	(2) $j = 4-i$
	(3) cout< <endl;< th=""></endl;<>

5. Programming design. 20points.

Function: 15 points; Programming style: 5 points.

```
//Sample 1: with the assistance of additional array
 #include<iostream>
 #include<cstring>
 using namespace std;
void seprtDigLet(char *string){
                                 int len = strlen(string);
                                  char *resul = new char[len+1];
                                 int i, j, k, l;
                                 i = k = 0;
                                j = l = len-1;
                                  resul[len] = '\0';
                                  for(;i<len; i++, j--){
                                                  if(string[i] \ge 0'\&string[i] \le 9'
                                                                           resul[k]=string[i];
                                                                          k++;
                                                  }
                                                  if(string[j] \ge a'\&\&string[j] \le z'|string[j] \ge A'\&\&string[j] \le z'' \le a'' \&\&string[j] \le a'' \&\&string[j
                                                                           resul[I]=string[j];
                                                                         I--;
                                                  }
                                  strcpy(string, resul);
                                  delete resul;
}
int main()
{
                                  char str[100];
                                  cin>>str;
                                  seprtDigLet(str);
                                  cout<<"----"<<endl;
                                  cout<<str<<endl;
}
```

```
//Sample 2: no additional array is needed
#include<iostream>
#include<cstring>
using namespace std;
void seprtDigLet(char *string){
      int len = strlen(string);
      for(int i = 0, j=0; i < len-1; i++){
          char tmp;
          if(string[i] \gt= 'a' \& \$string[i] \lt= 'z' | |string[i] \gt= 'A' \& \$string[i] \lt= 'Z') \{
               for(j = i+1; j < len; j++)
                   if(string[j]>='0'\&string[j]<='9'){
                        tmp = string[j];
                        for(;j>i;j--)
                             string[j]=string[j-1];
                        string[i]=tmp;
                        break;
                   }
         }
      }
int main()
{
      char str[100];
      cin>>str;
      seprtDigLet(str);
      cout<<"----"<<endl;
      cout<<str<<endl;
}
```