浙江大学 2014 - 2015 学年冬季学期

《程序设计基础》课程期末考试试卷

课程号: __211Z0040 __, 开课学院: __计算机学院__

	考试试卷:	√A卷、B卷(请在	E选定项上打√)		
	考试形式:	√闭、开卷(请在	选定项上打√),	允许带_/_入场	
	考试日期:	2015 年 01 月 28	8_日,考试时间:_	120_分钟	
诚信考试,沉着应考,杜绝违纪.					
考生姓名:		学号:	所属	院系:	
	(注意:答题区	内容必须写在答题	题卷上,写在 本	试题卷上无效)	
Se	ction 1: Single C	hoice(2 marks fo	r each item, total	l 20 marks)	
	_	•		ning language? D. true	
2.	Given a , b and c a	-	bles, which one be	low is NOT equivalent to	
	a/b/c?				
	• •	B. a/(b/c)	` '	D. a/c/b	
3.	Which function head	der is NOT correct? _ B. void f(int i)		D void f(int i int i)	
4		w, what will be the va			
٦.	int i;	w, what will be the ve	alue of Faller life loc	γρ:	
	while (i<10) i++	.•			
	A. 10	B. 11	C. 9	D. None of above.	
5.	Given the declarate	tions: <i>int a[5], *p</i> =		on is equivalent to the	
	expression p+1 ?_		•	·	
	A. a[1]		C. a+1	D. p[2]-1	
6.	For the declarations	s: int a[]={1,2,3,4,5},	* p=a+1 , y ; what wil	I be the value of variable	
	y after executing y	=(*p)++ ; ?			
	A. y=1	B. y=2	C. y=3	D. Syntax error.	
7.	For the declarations A. p=n	: <i>int *p[2], n[5];</i> whic B. p=&n[0]	ch assignment expre C.p[0]=n	ession is correct? D. p[0]=n++	
8.	Given the following	code fragment, the lo	oop condition str[i]! =	='\0' could be replaced by	
which choice?					
	char str[20]="hello, world";				
	for (i = 0; str[i] != '\0'; i++) putchar(str[i]);				
	A. str[i]	B. i < 20	C. !(str[i] = '\0')	D. i <= 20	

9.	Which function-calling statement could be used, to open a text file entitled "abc.txt" and located in the folder "user" within D diskette, which is opened for the reading and				
	writing operation?				
	A. fopen("D:\user\abc.txt","r")	B. fopen("D:\\user\\abc.txt","r+")			
	C. fopen("D:\user\abc.txt","rb")	D. fopen("D:\\user\\abc.txt","w")			
10.	In the following code fragments, which item is completely correct?				
	A. int *p[5]; scanf("%d", p[0]);	B. int *p; scanf("%d", p);			
	C. int n[10], *p=n; scanf("%d", p);	D. int n, *p; *p= &n scanf("%d", p);			
Se	ction 2: Fill in the blanks(2 mar	ks for each item, total 30 marks)			
1.	The value of expression 3/6*2.0 is	.			
2.	The value of expression '9'-'0' is	<u>:</u>			
3.	Given:				
	char c = 255;				
	printf("%d", c);				
	The output should be:				
4.					
	int b=50;				
	if (1 <b<10)="" else="" printf("ok")="" printf('<="" td=""><td>'no");</td></b<10>	'no");			
	the output is				
5.	The following code fragment will print out				
	void swap(int *pa, *pb)				
	{				
	int *t = pa;				
	pa = pb;				
	pb = t;				
	}				
	int a = 1, b = 2;				
	swap(&a, &b);				
	printf("%d#%d#", a, b);				
6.	The output of the code below is				
	char *s="abc";				
	while (*s++) if (*s) putchar(*s-1);				
7.		a statement which could be used to allocate 10			
•		irst address to the variable s			
8.	Try to use the function-call of fscanf , to replace the function-call of scanf ("%d",&m)				
9.		te an expression without any function-calling,			
	which is equivalent to the expression ${\bf s}$				
10.	Given the declaration: <i>int a[3][2]={1</i> (a[1]+1)[0]?	(,2,3,4,5,6); what is the value of expression			

```
11. The value of expression !*("2015-01-28"+5) is _____.
12. The output of the code below is
    char x[]="hello,world\012345";
    printf("%d#%d#", sizeof(x), strlen(x));
13. The output of the code below is _____.
    char *a[3]={"one", "two", "three"}, **p=a;
    printf("%s#", *(++p)+1);
    printf("%c#", **p-1);
14. Given the declarations: FILE *infp, *outfp;, write a statement: it is used to write a
   letter, which is read from a file pointer infp, into the file pointer outfp, which points to
15. Given the declaration: char s[10]="12345678"; what will be the value of strlen(s)
   after executing strcpy(s+2,s+5); _____.
Section 3: Read each of the following programs and answer questions
(5 marks for each item, total 30 marks)
1. What is the output of the following program? ______.
    #include <stdio.h>
   void swap(int *a, int b)
       int m, *n;
       n=&m;
       *n=*a;
       *a=b:
       b=*n;
   }
   int main()
   {
       int x=8,y=1;
       swap(&x,y);
       printf("%d#%d#",x,y);
   }
2. When input: 123, what is the output of the following program .
    #include <stdio.h>
    int f(char s[], int b)
```

int i=0, n=0;

```
while (s[i]!='\0') {
           n=n*b+s[i]-'0';
           j++;
        return n;
    }
    int main()
    {
        char s[20];
        int n;
        scanf("%s",s);
        printf("%d", f(s,5));
    }
3. When the following program's input is
     ing<Enter>
      This is a long test string<Enter>
    the output of the program is _____.
    #include <stdio.h>
    #include <string.h>
    int main()
        char s[100], t[100], ch, *p;
       int count, i;
       gets(s);
        gets(t);
        for (i = 0; i < strlen(s); i++) {
           count=0;
           p = t;
          while (*p != '\0') {
               if (*p == s[i]) count++;
               p++;
          printf("%c %d ", s[i], count);
    }
4. The output of the following program's is _____.
     #include <stdio.h>
    #include <string.h>
    void fun(char *s[], int n)
         char *t;
```

int i,j;

```
for (i=0; i<n; i++)
            for (j=i+1; j<n; j++)
                if (strlen(s[i])> strlen(s[j])) {
                   t=s[i];
                   s[i]=s[j];
                   s[j]=t;
               }
    }
    int main()
        char *s[]={"the population of", "the city", "has reached", "top level"};
        fun(s,4);
        printf("%s,%s\n",s[0],s[3]);
    }
5. The following program will print out ______.
    #include <stdio.h>
    void p1(int v∏)
          int i,j,temp;
          for (i=1; i<4; i++)
            for (j=i-1; j>=0\&v[j]<v[j+1]; j--) {
               temp = v[j];
               v[j]=v[j+1];
               v[j+1]=temp;
            }
     }
    void p2(int v1[], int v2[])
          int i=0, j=0;
          while (i<4 && j<4) {
             if (v1[i]>v2[j]) {
                  printf("%d", v1[i++]);
             } else {
                  printf("%d ", v2[j++]);
         while (i<4) printf("%d ", v1[i++]);
         while (j<4) printf("%d ", v2[j++]);
    }
     main()
        int a[2][4]=\{\{5,3,7,2\},\{4,1,8,6\}\};
        p1(a[0]);
        p1(a[1]);
        p2(a[0],a[1]);
    }
```

6. When input: 8 1 2 3 4 5 6 7 8, the following program will print out

```
#include <stdio.h>
#include <stdlib.h>
void F1(int *a, int n)
   int t, *b = a + n - 1;
   while (a < b) {
     t = *a;
     *a = *b;
     *b = t;
     a++;
     b--;
  }
}
void F2(int *a, int n)
  int i,t;
  if (n \le 1) return;
  for (i = 0; i < n/2; i++){
      t = *(a + i);
      *(a + i) = *(a + n - 1 - i);
      *(a + n - 1 - i) = t;
  }
}
int main(void)
   int i, n, *a;
   scanf("%d", &n);
   if ((a = (int*)malloc(n*sizeof(int))) == NULL) return 2;
   for (i = 0; i < n; i++) scanf("%d",a + i);
   F1(a + n/4, n/2);
   F2(a, n);
   for (i = 0; i < n; i++) printf("%d#",*(a + i));
   return 0;
}
```

Section 4: According to the specification, complete each program (2 marks for each blank, total 20 marks)

1. There is an increasing ordered (升序) character list in a text file *in.txt*. The following program read in this list, calculate the number of duplicates(重复) and write each character and its frequency of occurrence (>1) (大于 1 的出现次数) into the file *out.txt*. For example, if the *in.txt* contains "abbcdddddddddddddddd", the list "ab2cd12e" will be written into *out.txt*.

```
#include <stdio.h>
main()
   FILE *fp1, *fp2;
   char last, c;
   int count=0;
   fp1=fopen("in.txt", "r");
   fp2=fopen("out.txt", "w");
   if (_____(1)_____) return (0);
last='\0';
              ____(2)____) {
   while (___
      count++;
      if (c!=last) {
           if (count>1) _____;
           count=0;
                 (4)
                   (5)
           last=
     }
   fclose(fp1);
   fclose(fp2);
}
```

2. Function **strncat(char *ret, char *s2, int n)** copy at most **n** characters from **s2** to **ret**. The output of the following program is:

WooMan

GoodWoMan

Please complete the program.

```
#include <stdio.h>
char *strncat(char *ret, char *s2, int n)
    char *s1=ret;
    if (n>0) {
        while (_______);
        s1--;
        while (*s1++=____(7)____) {
           if (--n>0) continue;
           *s1=_____;
           break;
        }
        return ret;
    } else {
        return s1;
    }
}
```

```
main()
{
        char s[100]="Good";
        char t1[100]="Woo";
        char t2[100]="Manager";

        strncat(___(9)____);
        printf("%s\n", t1);
        strncat(___(10)___);
        printf("%s\n", s);
}
```