## 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	<b>青在选定项上打</b> √)	
	考试形式:	√闭、开卷(请	在选定项上打√),	允许带_/_入场
	考试日期:			120_分钟
		诚信考试,沉	着应考,杜绝违纪.	
夬	5生姓名:	学号:	所属	院系:
	(注意:答题	内容必须写在符	<b></b>	试题卷上无效)
Se	ection 1: Single (	Choice(2 marks	for each item, tota	l 20 marks)
1.	Which one below i  A. printf			ming language? D. true
2.	•	<del>-</del>		elow is <b>NOT</b> equivalent to
	<b>a/b/c</b> ? A. (a/b)/c	B. a/(b/c)	C. a/(b*c)	D. a/c/b
3.	Which function hea	ader is <b>NOT</b> correct	?	D(" ( ( . )
4			C. void f(int i,j) e value of <i>i</i> after the lo	
т.	int i;	iow, what will be the	value of Faller the lov	ορ:
	while ( i<10 ) i+			
	A. 10	B. 11	C. 9	D. None of above.
5.			* <b>p=a;</b> which express	ion is equivalent to the
	expression <b>p+1</b> ?	 	0	D [0] 4
^	A. a[1]		C. a+1	
6.			,5},* <b>p=a+1, y;</b> what w	ill be the value of variable
	A. y=1	<b>y=(*p)++</b> ; ? B. y=2	C. y=3	D. Syntax error.
7	-	•	/hich assignment expr	•
٠.	A. p=n	B. p=&n[0]	C. p[0]=n	D. p[0]=n++
8.	-			/='\0' could be replaced by
	which choice?			
	char str[20]="hello, world";			
		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 " <b>abc.tx</b> t' and located in the folder " <b>user</b> " within D diskette, which is opened for the reading and writing operation?				
		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 it	, ,			
10.	A. int *p[5]; scanf("%d", p[0]); B. int *p; scanf("%d", p);				
		D. int n, *p; *p= &n scanf("%d", p);			
Se	ction 2: Fill in the blanks (2 mark	s for each item, total 30 marks)			
1.	The value of expression 3/6*2.0 is				
	The value of expression '9'-'0' is				
	Given:	_			
	char c = 255;				
	printf("%d", c);				
	The output should be:				
<ol> <li>4.</li> <li>5.</li> </ol>	Given:				
	int b=50;				
	if ( 1 <b<10 )="" else="" printf("no");<="" printf("ok")="" td=""></b<10>				
	the output is				
	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.	Given the declaration: <b>char</b> *s;, write a statement which could be used to allocate 10				
	bytes from the system and assign the first address to the variable <b>s</b>				
8.	Try to use the function-call of <b>fscanf</b> , to replace the function-call of <b>scanf("%d",&amp;m)</b>				
9.	Given the declaration: <b>char</b> *s; , write an expression without any function-calling				
4.0	which is equivalent to the expression <i>str</i>				
10.	Given the declaration: <i>int a[3][2]={1,ii</i> (a[1]+1)[0]?	<b>2,3,4,5,6}</b> ; 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';
        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 "abbcddddddddddddddd", 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)
          last=
                   (5)
     }
   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);
}
```