浙江大学 2013 - 2014 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(请在选定项上	:打√)			
	考试形式:	√闭、开卷(请	青在选定项上:	打√),允许	带_/_入场		
	考试日期:	_2014 年_01_月	月 <u>12</u> 日,考记	、 【时间: <u>120</u>	_分钟		
		诚信考试,沒	元着应考,杜	绝违纪.			
考生姓名:		学号:		所属院系	_所属院系:		
	(注意:答题	内容必须写在	答题卷上,	写在本试匙	返卷上 无效)		
Se	ection 1: Single	Choice(2 mark:	s for each ite	em. total 20 i	marks)		
	Which one below i	•			•		
_	A. define	B. if	C. typede	ef D. w	/hile		
2.	For the following d	eclaration in a fun	iction:				
	int i, j=6;						
Which statement of the following is true? A. both i and j has initial value of 6.							
							B. i will be initialized as zero, while j will be 6.
	C. i will not be init	ialized, but j will g	et 6.				
	D. It will be error i	n compiling.					
3.	For code below:						
	unsigned shor	t sht = 0;					
	sht;						
What will be the value of sht after the execution?							
	A1	B. 65535	C. 3276	7 D.	65536		
4.	Which literal below	is 124 in decima	(十进制)?				
	A. 0124	B. 124d	C. 0x124	1 D.	0174		
5.	Given function pro int* f(int *p); and variable defir int i;	••					
	Which calling to thi	s function is NOT	correct?	_			
6.	A. f(&i); Given an array defollowing is correct	eclaration: static	C. int* <i>int a[3][4]= {0</i>			е	
	A. Each element of B. The declaration	of the array a can	have been initi	alized by 0.			

	C. Each element of the array a can be in ALWAYS(不一定) 0.	nitialized , but their in	itial values are NOT			
7.	D. Only element a[0][0] can be initialize The following code fragment will print ou char s[]="student"; printf("%s%d", s+3, sizeof(s));	ut				
_	A. student7 B. dent7		D. student8			
8.	The following code fragment will print ou	ut				
	int *p, *q, k = 10, j=1;					
	p=&j q = &k ; p = q ; (*p)++; printf("%d",*q);					
	A. 10 B. 11	C. 1	D. 2			
9.	Given the declaration: <i>int a[10], *p=a;</i> ,					
	A. a[9] B. p[5]	C. *p++	 D. a++			
10.	In the following code fragments, item _					
	A. int *p; scanf("%d", &p);		%d", p);			
	C. int k, *p=&k scanf("%d", p);					
Se	ction 2: Fill in the blanks(2 marl	ks for each item, i	total 30 marks)			
1.	The following <i>for</i> loop statement will prin		16 19 22 25			
	for (i=1; i<=9; i++));				
2.	Given: char c='@';, the value of expres	ssion 'A' <= c <= 'Z'	is			
3.						
	int x=0, y=0, z=0;	-				
	z = (x==1) && (y=2);					
4.	The value of expression (double)(10/4*4)+2>7.0+4%5 is					
5.	The output of calling encode("2014\\") is					
	void encode(char *s)					
	{					
	while (*s++) {					
	switch(*s-'0') {					
	case 0: case 2: case 4: case 8:	· printf("%c" *s+1)· b	reak:			
		. ,				
	case 1: case 3: case 5: case 7: printf("%c", *s-1); break;					
	default: printf("%c", *s);					
	}					
	}					
	}					
6.	The output of the code below is	<u>_</u> ·				
	char s1[] = "Zhejiang"; char s2[] = "University";					
	char *s = (char*)malloc(strlen(s1)+strle	n(s2)+1)·				
	strcpy(s, s1);	11(02)*1);				
	strcat(s, s2);					
	*strrchr(s, 'i') = 0; /*strrchr(s,c):ret	urn a pointer to the la	ast instance of c in s */			
-	printf("%d#%s#",strlen(s),s);	4-4				
1.	Given: char format[] = "No.%d%c"; the printf(format, 3, *("xyz"+2));	e statement				
	will print out . (xyz +2));					
8	Given the declaration: int a[3][3]={1.2.3	8 4 5 6 7 8 9 3: the va	lue of <i>al-11[5]</i> is			

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9. The output of the code below is :
    int x=1,y=2,z=3;
    while (x < z) printf("%d#", x+=z-=y);
10. The output of the code below is _____.
    int k = 9;
    int f(int x)
    {
        static int k=0;
        k++:
        {
             int x = 0;
             return k+x;
        }
    int main()
        while (k-=3) printf("%d#",f(k));
11. What are the values of i,x,y after executing the do-while loop?
    int i,x,y;
    i=x=y=0;
    do {
         if (i\%2) x+=i, i++;
        y +=i++;
    } while ( i<=7 );
12. The following code fragment will print out _____.
    int a[]=\{1,2,3,4,5,6,7\}, *p, s;
    for(s=0, p=a+1; p<=a+6; p=p+2) s+=*p;
    printf("%d", s);
13. The symbolic constant which is usually used in while ((c=getc(fp))!=____) as a
   mark of end-of-file.
14. The following code fragment will print out .
     char s[]="abc\0xyz\0ghi",*sp=s;
     printf("%s",sp+5);
15. The following function strcat will implement the task of catenating(拼接) the string t to
   the end of string s.
     void strcat(char *s, char *t)
       while (*s++=*t++);
     }
Section 3: Read each of the following programs and answer questions
(5 marks for each item, total 30 marks)
       This is a test {just for C},{You are} right!< ENTER>
    the output of the following program will be
    #include <stdio.h>
    main()
    {
      char c;
      int state=0;
      while((c=qetchar())!='\n') {
         if (c=='{' || c== '}')
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state=!state;
     else {
         if (state==1 && c>='a' && c<='z') c= c-'a'+'A';
         putchar(c);
   }
The following program will print out _____.
#include <stdio.h>
void sh(int array[], int n)
{
    int i, array end;
    array_end = array[n-1];
    for( i=n-1; i>0; i-- ) array[i] = array[i-1];
    array[0] = array end;
main()
{
    int number[]={0,1,2,3,4,5,6,7,8,9};
    int n= sizeof(number)/sizeof(int), m=3, i;
    for( i=0; i<m; i++ ) sh(number+m, n-m);
    for( i=0; i<n; i++ ) printf("%d#", number[i]);
When input: 123, the following program will print out _____
#include <stdio.h>
void f(int n, char s∏, int b)
     int i=0:
     while (n>0) {
       s[i++]=n%b+'0';
       n=n/b;
     }
     s[i]='\0';
main()
{
    char s[20];
    int n;
    scanf("%d",&n);
    f(n, s, 8);
    printf("%s\n", s);
The following program will print out
#include <stdio.h>
int *p;
void f(int *po)
    static int s = 1;
    if(s > 1) {
      *po = *po + 1;
      if(*po == *p) printf("Yes ");
      else printf("No ");
   } else {
      s++:
      if(&po == &p) printf("Yes");
      else printf("No ");
```

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}
    }
    main()
    {
        int a = 1;
        p = &a;
        f(p);
        printf("%d ", a);
        f(p);
        printf("%d", a);
5. The following program will print out
    #include <stdio.h>
    void fun(char str[])
         int i,j;
         for (i=0,j=0;str[i];i++)
            if ( str[i]>='0'&&str[i]<='9') str[j++]= str[i];
         str[j]='\0';
    main()
         char str[100]=
              "By the end of 2013, the population of the #98 city has reached 765400.";
         fun(str);
         printf("%s\n",str);
    Supposing: a text file "data.txt" contains some characters as follows:
          13579-+QWERT{}asdf[]
    After executing the following program, the contents of the file "data.txt" will include
   #include <stdio.h>
   #include <ctype.h>
   int main()
     FILE *fp;
     int ch;
     long offset = 0L;
     if ((fp=fopen("data.txt", "r+"))==NULL) return -1;
     while (1) {
        fseek(fp, offset, SEEK SET);
        /*fseek(FILE *fp, long offset, int start): locate the accessing position of a file.
         offset is the distance in bytes from the start point, SEEK SET indicates that the
         start point is the beginning of the file. */
        if ((ch = getc(fp)) == \n' || ch == EOF) break;
        if (ch>='A' && ch<='Z') {
            ch -= 'A' - 'a';
        } else if (ch>='a' && ch<='z') {
            ch -= 'a' - 'A';
        } else if (isdigit(ch)) {
            if (!isdigit(++ch) ) ch -= 10;
        fseek(fp, offset, SEEK_SET);
        putc(ch, fp);
```

```
offset++;
fclose(fp);
```

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

different from the typical method. Each three digitals are separated by a '.' . For the following input:

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The following program calculates the result of A+B. But the expression of A and B is
    -234,567,890 123,456,789
the program should get the result:
     -111111101
You are supposed to complete the program.
#include <stdio.h>
int trim( (1) )
   char *p = str;
    int flag = 1, num = 0;
    if (*p == '-') {
                    (2)
       flag =
       p++;
    while (*p !='\0') {
       if (*p!=',') num =____
             (4)
    return num * flag;
}
main()
    char str1[20],str2[20];
     scanf("%s%s", str1, str2);
    printf("%d\n", trim(str1)+ _______);
There is a text file "dat.txt" which contains some integers with maximum number of
100. The following program will read in these integers, sort them in ascendant
order(升序) and store them into another text file "sortdat.txt".
For example, suppose the file "dat.txt" contains the following numbers:
     12 4 9 8 56 0 33 77 66 3 120 99
After executing the program, the file "sortdat.txt" will be listed as follows:
    0 3 4 8 9 12 33 56 66 77 99 120
Fill in the blanks to complete the program.
 #include <stdio.h>
 #define MaxSize 100
 FILE *OpenFile(char *filename, char *mode);
 int ReadinNums(FILE *fp, int num[]);
```

```
void Sort(int num∏, int n);
void SaveNums(FILE *fp, int num[], int n);
main()
{
  int num[MaxSize], n, i;
  <u>(6)</u> ;
  fpin = OpenFile("dat.txt", "r");
  fpout = OpenFile("sortdat.txt", "w");
  n = ReadinNums(fpin, num);
  Sort(num, n);
  SaveNums(fpout, num, n);
  fclose(fpin);
  fclose(fpout);
}
FILE *OpenFile(char *filename, char *mode)
   FILE *fp;
   if (<u>(7)</u> == NULL) {
     printf("Can't open file \"%s\"!\n", filename);
    exit(-1);
  return fp;
}
int ReadinNums(FILE *fp, int num[])
  int count = 0;
  while (!feof(fp)) /*loop when not reach the end of file*/
                      <u>(8)</u> ;
  return count;
}
void Sort(int num[], int n)
   int i, k, index, temp;
   for (i = 0; i < n-1; i++) {
```

```
index = i;
     for (k = i+1; k < n; k++) {
       if (num[k] < num[index]) _____;
     }
     if (index != i) {
      temp = num[i];
      num[i] = num[index];
      num[index] = temp;
     }
  }
}
void SaveNums(FILE *fp, int num[], int n)
{
  int i;
  for (i = 0; i < n; i++) ______;
}
```