浙江大学 2017 - 2018 学年冬学期

《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:	试形式: √闭、开卷(请在选定项上打√),允许带_/入场			
考试日期:					
		诚信考试,沉着	— f应考,杜绝违纪.		
考生姓名:		学号:	所属	所属院系:	
	(注意:答题)	内容必须写在答	:题券上。写在才	太试题卷上无效)	
	(/ 1 /6)		ACCI, TAM		
	_	Choice(2 marks fo		al 20 marks) le-character constant(单字	
	符常量) correctly.	tations,can	WOT express a sing	e-character constant(李子	
	A. '%c'	B. 127	C. '\077'	D. 55	
2.		={{1,2}, {3,4}, {5}};	the value of expres	sion <i>sizeof(a[0])</i> is	
•	A. 9		C. 24		
3.	A case	is <i>NOT</i> reserved for u B.return	use as keyword in C C FILE	! D_unsigned	
4				expression: a<b &&="" a="">c?	
	•			•	
	•		B. !(a>=b)&&	B. !(a>=b)&& !(a-c)	
	C. !(a>=b a<= c	o)	D. !(a>=b !(a	>c))	
5.	Given: <i>int n[5][5]</i> ; which statement of element-accessing is wrong? A. $*n = 0$; B. $*n[1] = 1$; C. $n[5][-5] = 1$; D. $n[-1][6] = 1$;				
•				; D. n[-1][6] = 1;	
6.	Which of the following is <i>NOT</i> correct? A.The global variable is defined outside the function.				
	B. The local variable is defined inside the function.				
	C. The static variable is defined outside the function.				
	D. The automatic	variable is defined in	nside the function.		
7.					
	A. for (i=j=0 ;i<100	• '			
	B. i=j=0; while (i<100) {i++; j++;} C. i=0 ;while ((j=i)<100) {i++;}				
	, ,	- 100) {1++,} +; j++} while (j<=100)	١٠		
8.					
	A. p=a	B. p=&a[1]	C. *p=a	D. p[0]=*a	
9.	Given: <i>int a[5], *p</i>	=a ; , which statemer			
	A. scanf("%d", &	•	B. scanf("%d"		
	C. scanf("%d", a-	,	D. scanf("%d"	, *&p);	
10.	Which of the follow	ving is correct?	·		

A. Within the function fun, a is an initial address of an array, whose value cannot be changed.

- B. Within the function *main*, the reference such as &n is invalid.
- C.Because of call-by-value, the elements of the array *n* cannot be changed within the *fun*.
- D. Within the function *fun*, the reference such as *&a* is invalid.

Section 2: Fill in the blanks (2 marks for each item, total 30 marks)

The value of expression 3/6*.2 is The value of expression ! "01-21-2018"[7] is 2. 3. Given: int c = w'; the value of expression c+=A'-a'==W' is Given: int x = 5;, after execute if(x==5 || (x==3)) x++; the result of x is _____. Given: char s[]="123\029\08"; , then sizeof(s) and strlen(s) will be____ respectively. After executing the following code fragment, the value of *n* is _____. int n; for (n=-1; n; n--);After executing the following code fragment, the output is ... 7. int i, b; i=b=1; switch(i){ case 0: b+=1; case 1: b+=2; case 3: switch (b) { case 3: i++; default: break; i+=1; printf("%d#%d#", i, b): The following code fragment will output char *week[]={"Mon", "Tue","Wed","Thu","Fri","Sat","Sun"}, **pw=week; char c1, c2; c1 = (*++pw)[1];c2 = *++pw[1];printf("%c#%c#", c1, c2); The value of expression **strcmp("abcabc", "aabbcc"+1) < 0** is ... 10. The following code fragment will output _____. void PlusOne(int x) { x++;} int x = 0; PlusOne(x);

printf("%d", x);

```
11. The following code fragment will output .
    int n=1;
    int fun(int m)
       static int x=1;
       int y=0, n;
       x++; ++y;
       m+=x+y;
       n=m*2;
       return m;
    int main()
       printf("%d#%d#", fun(fun(n)), n);
12. The following code fragment will output .
    int a[]=\{1,2,3,4,5,6,7,8\}, *p, s;
    for(s=0, p=a+5; p>a-1; p--) s += *p;
    printf("%d", s);
13. Given: char * s;, which expression could replace the condition i<strlen(s) in the loop
    statement: for(i=0; i<strlen(s);i++)?
14. Try to use the function-call of fscanf(), to replace the function-call of
    scanf("%d",&m);
15. For the declaration: int a[3][4]={{0,1,2},{4,5,6},{7,8}};, the value of the element of
    a[1][-2] is
Section 3: Read each of the following programs and answer questions
(5 marks for each item, total 30 marks)

    The output of the following program is ____

    #include <stdio.h>
    void func(int i,int a[],int n)
    {
         int j, temp;
         temp=a[i];
         for (j = i; j>0 && a[j-1]>temp; j--) a[j]=a[j-1];
         a[j]=temp;
    int main()
         int a[]=\{6,-1,8,2,3,7,1,5,4,0\}, i, n;
         n=sizeof(a)/sizeof(int);
         for(i=1; i \le n/2; i++) func(i,a,n);
         for(i=0; i<n; i++) printf("%d ", a[i]);
         return 0;
2. The following program will output
    #include <stdio.h>
    int func(int a∏,int n)
    {
         int i,j,k=0;
         for (i=0; i<n; i++) {
           for (j=i+1; j<n; j++) if (a[i]>a[j]) k++;
         return k;
    }
```

```
int main()
         int a[7]=\{7,1,5,4,2,3,6\};
         printf("First:%d", func(a,7));
         printf("Next:%d", func(a+1,6));
         return 0;
3. The following program will output _____.
    #include <stdio.h>
    void sh(int a[], int left, int right)
    {
         int t, i, j;
         for (i=left, j=right; i<j; i++,j-- ) {
             t=a[i]; a[i]=a[i]; a[i]=t;
        }
    int main()
         int number[]={1, 2, 3, 4, 5, 6, 7, 8}, i;
         sh(number, 0, 7);
         sh(number, 0, 2);
         sh(number, 3, 7);
         for( i=0; i<8; i++ ) printf("%d ", number[i]);
4. The following program will output _____.
    #include <stdio.h>
    int main()
         int a[] = \{1,2,3,4,5,6\}, *p,*q;
         for (p=&a[5], q=a; q<p; p--, q++) {
              *p = *p + *q;
              *q = *p - *q;
              *p= *p - *q;
         printf("%d#%d#", *p, *q);
5. When input 1/2 3/4<ENTER>, the following program will output .
    #include <stdio.h>
    int compare(int a, int b, int c, int d);
    int lcm(int a, int b);
    int gcd(int a, int b);
    int main()
    {
        int a,b,c,d;
        int relation:
        scanf("%d/%d %d/%d", &a, &b, &c, &d);
        relation = compare(a,b,c,d);
        if (relation > 0) {
            printf("%d/%d is bigger.\n", a,b);
        } else if ( relation < 0 ) {
            printf("%d/%d is bigger.\n", c,d);
        } else {
            printf("%d/%d equals to %d/%d.\n", a,b,c,d);
    int compare(int a, int b, int c, int d)
```

```
int cm = lcm(b,d);
         a = a*(cm/b);
         c = c*(cm/d);
         return a-c;
    int lcm(int a, int b)
        return (a*b)/gcd(a,b);
    int gcd(int a, int b)
        while (b>0) { int t=a%b; a=b; b=t; }
        return a;
6. The following program will output
    #include <stdio.h>
    int x, y, z, w;
    void p(int y[], int x)
         int w, *z;
         ^*y--; z=y; x++; w = x+^*++y;
         printf("%d#%d#%d#%d#",x, y[0], z[1], w);
    }
    int main(void)
         int x, y, z, w;
         x=y=z=w=1;
         do{
             static int x;
             p(&x, y);
             printf("%d#%d#%d#%d#",x,y,z,w);
         } while(0);
    }
```

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

1. The following function *int turn(char s[])* converts the string of hexadecimal number(十六进制数字符串) to the corresponding decimal integer(十进制整数). There may be some spaces on the head of the string, and the capitals(大写字母) are not recognized. For example, *turn(" -1b2A")* will return the value *-434*, which is the corresponding decimal integer of hexadecimal number *-1b2*. Please fill in the blanks to complete the functions.

```
/*Whether the character c is in the c, c interval, c for c and c for c interval, c for c and c for c interval, c interval, c for c interval, c interv
```

```
else if (lsln(s[i], 'a', 'z')) n = ______;
else break;
}
return n*flag;
```

2. The function *fileput(char * fname, char * text)* creates(创建) an empty file *fname*, then writes a string pointed by *text* into it. The function *filencat(char *fname1, char *fname2, int n)* concatenates(拼接) at most *n* characters from *fname2* to file *fname1*. Assume that the following program will run correctly, and when it finishes running, the 3 files *f1.txt*, *f2.txt*, and *f3.txt* contain 3 strings "*WooMan*", "*Manager*", and "*GoodWoMan*" respectively. Please complete it.

```
#include <stdio.h>
char* fileput(char * fname, char * text)
   FILE* fp =
   if(fp == NULL) return NULL;
   fputs(text, fp);
   fclose(fp);
   return fname;
char* filencat(char * fname1, char * fname2, int n)
   FILE *fp1, *fp2; char c;
   if( fname1 == NULL || fname2 == NULL) return NULL;
   fp1 = ____
                 (7)
   fp2 = fopen(fname2, "r");
   if (fp1 == NULL || fp2 == NULL) {
       printf("%s, %s\n", fname1, fname2);
      return NULL;
   c = fgetc(fp2);
   while (1) {
        if(!n-- || feof(fp2)) _____;
        fputc(c, fp1);
              (9)
   fclose(fp1); fclose(fp2);
   return fname1;
int main(void)
   if (!fileput("f1.txt","Woo")||!fileput("f2.txt","Manager")||!fileput("f3.txt","Good")) {
       printf("Fail the put\n");
      return 1;
   if (!filencat("f1.txt", "f2.txt", 3) || !filencat(_____
                                                            (10) _____)) {
      printf("Fail the concatenation\n");
      return 2;
   printf("Complete the concatenation\n");
   return 0;
}
```