《C语言程序设计》阅读程序写结果试题汇总

阅读程序写结果试题

第四章 选择结构 (共 20 道题)

```
1. (于蕾)
#include <stdio.h>
void main()
int x, y, t;
x=7; y=9;
if(x < y)
\{t=x; x=y; y=t;\}
printf("%d,%d\n", x,y);
运行结果:
9, 7
2. (于蕾)
#include <stdio.h>
void main()
{
int x=1, a=2, b=3;
switch(x)
case 1: a--; break;
```

```
case 2: b++; break;
case 3: a++;b++;
printf("\na=%d, b=%d\n", a, b);
运行结果:
a=1, b=3
3. (于蕾)
#include <stdio.h>
void main()
char ch1 = 'E';
if(ch1 >= 'A')
ch1++;
else
ch1+=32;
printf("ch1 = %c\n", ch1);
运行结果:
ch1= F
4. (于蕾)
#include <stdio.h> void main()
int x, y, t;
```

```
x=5; y=3;
if(x>y)
\{t=x; x=y; y=t; \}
printf("%d,%d\n" , x,y );
运行结果:
3, 5
5. (王伟)
#include <stdio.h> int main()
int a, b, c, m;
printf("Enter three integers:");
scanf ("%d%d%d", &a, &b, &c);
if (a<=b)
m=a;
else
m=b;
if (c<m)
m=c;
printf("m=%d\n", m);
return 0;
}
输入:21 22 23<回车>
运行结果:
```

```
m=21
6. (王伟)
#include <stdio.h> int main()
char ch1='a', ch2='B', ch3='E';
if (ch1>ch2)
if(ch2>ch3)
ch3++;
else
--ch3;
printf("ch3=%c\n", ch3);
return 0;
运行结果:
ch3=D
7. (王伟)
#include <stdio.h> int main()
float x, y;
scanf("%f",&x);
switch((int)x/10)
{
case 0: y=1.0;
printf("y=%f\n", y);break;
```

```
case 1: y=2*x+1;
printf("y=%f\n", y);break;
case 2: y=3*x*x+2;
printf("y=%f\n", y);break;
default:
printf("No definition.\n");
}
return 0;
输入:15.3<回车>
运行结果:
y=31.600000
8. (王伟)
#include <stdio.h>
int main()
char ch1='A', ch2='B';
switch(ch1)
case 'A':
switch (ch2)
{
case 'B': printf("Good!\n");break;
case 'A': printf("Better!\n");break;
```

```
}
case 'B': printf("Best!\n"); break;
return 0;
运行结果:
Good!
Best!
9((王锋)
#include <stdio.h>
void main()
float score;
score = 100;
if (score<60) printf("E\n");</pre>
else
switch( ( int ) score / 10 )
{ case 10:
case 9: printf("A\n");
case 8: printf("B\n");
case 7: printf("C\n"); break;
case 6: printf("D\n"); break;
default: printf("Error\n");
```

```
}
运行结果:
A
В
С
(王锋) 10(
#include <stdio.h>
void main() {
int i=0, a=2;
if(i==0)
printf("**");
else
printf("$$");
printf("*");
}
运行结果:
***
11. (王锋)
#include<stdio.h>
void main() {
int m=10, n=0, p=4, q=20;
if (m)
if (n)
q=15-m;
```

```
else
q=25+m;
else if (p)
q=q+p;
printf("q=%d\n",q); }
运行结果:
q=35
12. (王锋)
#include<stdio.h>
void main() {
int a=1, b=0;
switch(a)
{
case 1: switch (b)
{
case 0: printf("**0**"); break;
case 1:printf( "**1**");break;
case 2: printf("**2**");break;
}
运行结果:
**0****2**
13. (宋昕)
```

```
#include<stdio.h>
int main()
int a=2, b=7, c=5;
switch (a>0) {
case 1: switch (b<0) {
case 1: printf("@"); break;
case 2: printf("!"); break ;
case 0: switch (c==5) {
case 1: printf("*") ; break ;
default : printf("#") ; break ;
default : printf("&");
}
printf("\n");
return 0;
运行结果:
*&
14. (宋昕)
#include<stdio.h>
int main()
```

```
int a=0, b=1, c=0, d=20;
if (a) d=d-10;
else if (!b)
if(!c) d=15;
else d=25;
printf("d=%d\n",d);
return 0;
}
运行结果:
d=20
15. (宋昕)
#include<stdio.h> int main()
{ int a=1;
switch(a) {
case 0: printf("**0**");break;
case 1:printf("**1**");break;
case 2:printf("**2**");break;
return 0;
运行结果:
**1**
16. (宋昕)
#include <stdio.h> int main()
```

```
{ int x, y;
scanf("%d",&x);
y = x>12 ? x + 10 : x - 12;
printf("%d\n", y);
return 0;
输入:12<回车>
运行结果:
0
17. (宋昕)
#include <stdio.h> int main()
float x, y;
char op;
double r;
scanf ("%c%f%f", &op, &x, &y);
switch(op)
{ case '+': r = x + y; break;
case '-': r = x - y; break;
case '*': r = x * y; break;
case '/': r = x / y; break;
}
printf("%.1f", r);
return 0;
```

```
}
输入:3.5<回车>
运行结果:
0.6
18. (王勇超)
#include "stdio.h"
void main()
{
int a=7;
if(a>9 || a<10)
a=a/3;
else
a=a\%3;
printf("a=%d", a); }
运行结果:
a=2
19. (王勇超)
#include<stdio.h>
void main()
{
int a=20;
switch(a%3)
case 0: printf("0");
```

```
case 1: printf("1");
case 2: printf("2");
default: printf("3");
printf("4");
运行结果:
234
20. (王勇超)
#include <stdio.h>
void main()
int a=2, b=5, c=8, t;
if (a < b) \{ t = a; a = b; b = t; \}
if (b < c) \{ t = b; b = c; c = t; \}
if (a < b) \{ t = a; a = b; b = t; \}
printf("%d,%d\n", a++, --c);
运行结果:
8, 1
```

第五章 循环结构 共 20 道题

```
1. (于蕾)
#include <stdio.h>
void main()
```

```
\Big\{
int number, digit;
number = 1234;
while ( number != 0 )
{
digit = number%10 ;
printf( \text{"} \text{wd} \text{"} , digit ) ;
number = number / 10;
运行结果:
4321
2. (于蕾)
#include <stdio.h>
#define N 5
void main()
int i;
for(i=1;i<N;i++)
printf("%d\n", i*i);
运行结果:
1
4
```

```
9
16
3. (于蕾)
#include<stdio.h> void main()
{
int i, s, x;
s=0;
x=15;
for (i=1; i \le 5; i++)
if (x\%i==0)
s= s + i;
printf("i=%d, s=%d\n", i, s);
运行结果:
i=6, s=9
4. (于蕾)
#include <stdio.h> void main()
int counter=1;
while(counter <= 5)</pre>
printf("%d \n", counter);
counter++;
```

```
}
运行结果:
1
2
3
4
5
5((王伟)
#include<stdio.h> int main()
int i, sum, m, a;
sum=0;
m=5;
for (i=0; i \le 3; i++)
{
scanf("%d",&a);
if (a>m)
sum+=a;
printf("sum=%d\n", sum);
return 0;
}
输入:2 10 8 3<回车>
运行结果:
```

```
sum=18
6. (王伟)
#include<stdio.h> int main()
int i, j, k;
for (i=1; i \le 4; i++)
{
for (j=1; j<5-i; j++)
printf("");
for (k=1; k \le i; k++)
printf("*");
printf("\n");
return 0;
}
运行结果:
**
***
****
7. (王伟)
#include <stdio.h> int main()
int i, j;
```

```
i=1;
while (i < 5)
for(j=1;j<2*i+1;j++)
printf("%c",'#');
printf("\n");
i++;
return 0;
运行结果:
##
####
######
########
8. (王伟)
#include <stdio.h> int main()
int i=10, m=0, n=0;
do
if(i\%2!=0)
m=m+i;
else
```

```
n=n+i;
i---;
while(i>=0);
printf("m=%d, n=%d\n", m, n);
return 0;
运行结果:
m=25, n=30
9((王锋)
#include <stdio.h>
void main()
int sum=0,n;
scanf("%d",&n);
while (n \le 5)
{
sum+=n;
n++;
printf("sum=%d", sum);
输入:1<回车>
运行结果:
sum=15
```

```
10((王锋)
#include <stdio.h> void main()
int i, j;
for (i=2; i>=0; i--)
{
for(j=1; j \le i; j++)
printf("*");
for (j=0; j \le 2-i; j++)
printf("!");
printf("\n");
运行结果:
**!
*!!
!!!
11((王锋)
#include <stdio.h> void main()
{
int a,b;
for (a=1, b=1; a \le 100; a++)
if(b>20) break;
```

```
if (b\%4==1)
{
b=b+4;
continue;
b=b-5;
}
printf("a=%d\n",a); }
运行结果:
a=6
12((王锋)
\label{localization} \mbox{\\tt\#include} \ \mbox{\\tt \sc stdio.h> void main()}
{
char k;
int i;
for (i=1; i<3; i++)
scanf("%c",&k);
switch(k)
case '0': printf("another\n");
case '1': printf("number\n");
```

```
}
输入:01<回车>
运行结果:
another
number
number
13. (宋昕)
#include <stdio.h> int main()
int i, s = 0;
for(i = 1; i < 10; i++)
s += i * i;
if (s > 10) break;
}
printf("i=%d, s=%d\n", i, s);
return 0;
运行结果:
i=3, s=14
14. (宋昕)
#include <stdio.h>
void main()
```

```
char ch;
while((ch=getchar())!='\n')
if (ch>='A'&&ch<='Z')
ch=ch+32;
else if (ch>='a'&&ch<='z')
ch=ch-32;
printf("%c", ch);
输入:ABCdef<回车>
运行结果:
abcDEF
15. (宋昕)
#include <stdio.h>
int main ()
int a, b;
for (a = 1, b = 1 ; a \le 100 ; a++)
{
if (b \ge 9) break;
if (b \% 3 == 1)
b += 3;
```

```
continue;
}
b = 5;
printf("%d, %d\n", a, b);
return 0;
}
运行结果:
4, 10
16. (宋昕)
#include<stdio.h> int main ()
int i = 0, j = 0;
while (i < 10) i++;
while (j++ < 10);
printf("i=%d, j=%d\n", i, j);
return 0;
运行结果:
i=10, j=11
17. (王勇超)
#include "stdio.h" void main()
int i, j, t;
```

```
for(i=1, j=10;i<3;i++, j--)
t=i+j;
t++;
printf("%d, %d", j, t); }
运行结果:
8, 12
18. 王勇超)
#include "stdio.h" void main()
int i=10, j;
do
j = i\%2;
printf( "%d", j );
i--;
} while ( i > 4 );
运行结果:
010101
19((王勇超)
#include "stdio.h" void main()
{
int i=7, j;
while (i > 2)
```

```
\Big\{
j = i\%2;
printf( "%d", j );
i--;
printf( "%d", i );
}
运行结果:
101012
20. (王勇超)
#include <stdio.h> void main()
int i, j, t=0;
for (i=3; i>0; i--)
for (j=0; j<4; j++)
t+=j;
printf("t=%d",t); }
运行结果:
t=18
                   第六章 函数 共 40 道题
1. (王伟)
#include <stdio.h> long fun(int x, int n);
int main()
\Big\{
```

```
int x=3, n=3;
long p;
p=fun(x, n);
printf("p=%ld\n", p);
return 0;
}
long fun(int x, int n) {
int i;
long p=1;
for (i=0; i< n; i++)
p∗=x;
return p;
运行结果:
p=27
2. (王伟)
#include <stdio.h> int isDigit(char ch); int main()
char ch;
while((ch=getchar())!='\n')
{
if(isDigit(ch))
putchar(ch);
```

```
printf("\n");
return 0;
int isDigit(char ch) {
if (ch>='0' && ch<='9')
return 1;
else
return 0;
输入:Abc1d23eF45g<回车>
运行结果:12345
3. (王伟)
#include <stdio.h> void odddivisor(int n);
int main()
{
int n;
scanf("%d", &n);
odddivisor(n);
return 0;
}
void odddivisor(int n) {
int i;
for (i=3; i \le n/2; i=i+2)
if(n\%i==0)
```

```
printf("%5d", i);
printf("\n");
输入:15<回车>
运行结果:
3 5
4. (王伟)
#include <stdio.h> void print();
int a=5;
int main()
int a=1, b=2;
a=a+b;
print();
printf("%d %d\n", a, b);
return 0;
void print()
{
int b=3;
printf("%d %d\n", a, b);
}
运行结果:
5 3
```

```
3 2
5. (王伟)
#include <stdio.h> int fun1(int x); void fun2(int x); int main()
{
int x=1;
x=fun1(x);
printf("%d\n", x);
return 0;
int fun1(int x) {
X^{++};
fun2(x);
return x;
void fun2(int x) {
X^{++};
运行结果:
2
6. (王伟)
#include <stdio.h> int funl(int a, int b, int c);
int main()
int a=11, b=21, c=31;
```

```
fun1(a, b, c);
printf("%d %d %d\n", a, b, c);
return 0;
int fun1(int a, int b, int c)
{
a=a+10;
b=b+10;
c=c+10;
return c;
运行结果:
11 21 31
7. (王伟)
#include<stdio.h> void fun(int x); int main()
{
fun(7);
printf("\n");
return 0;
}
void fun(int x) {
if(x/2>1)
fun(x/2);
printf("%5d",x); }
```

```
运行结果:
3 7
8. (王伟)
#include <stdio.h> void fun(int a[]); int main()
int i, a[5]=\{1, 2, 3\};
fun(a);
for (i=0; i<5; i++)
printf("%5d",a[i]);
printf("\n");
return 0;
void fun(int a[]) {
int i;
for (i=0; i<5; i++)
a[i] += 5;
运行结果:
6 7 8 5 5
9. (于蕾)
#include <stdio.h>
void fun ( int k ) ; void main ( )
int w = 5;
```

```
fun (w);
printf ("\n"); }
void fun ( int k ) {
if (k>0)
fun (k-1);
printf ("%d", k);
}
运行结果:
012345
10. (于蕾)
#include<stdio.h> void f1(void);
int a=1;
void main()
{
int a=2;
f1();
{
int a=3;
printf("a2=%d\n", a);
}
printf("a3=%d\n",a); }
void f1(void)
printf("a1=%d\n", a); }
```

```
运行结果:
a1=1
a2=3
a3=2
11. (于蕾)
#include<stdio.h>
void f(int a, int b, int *c) {
a=20; b=10;
*c=a+b; }
void main()
int a=10, b=20, c=30, d=40;
f (a, b, &c);
printf("%d, %d, %d\n", a, b, c); }
运行结果:
10, 20, 30
12. (于蕾)
#include<stdio.h>
void swap(int a, int b); void main()
{
int a=2, b=3;
printf("a=%d, b=%d\n", a, b);
swap(a,b);
printf("a=%d, b=%d\n", a, b); }
```

```
void swap(int a, int b) {
int c;
c=a;
a=b;
b=c;
运行结果:
a=2, b=3
a=2, b=3
13. (于蕾)
#include <stdio.h>
void fun(int a, int b, int c); void main()
{
int x=10, y=20, z=30;
fun(x, y, z);
printf("%d, %d, %d\n", x, y, z);
void fun(int a, int b, int c)
{
a=456;b=567;c=678;}
运行结果:
10, 20, 30
14. (于蕾)
#include <stdio.h> float f(int n)
```

```
{
int i;float s=0.0;
for (i=1; i < n; i++)
s=s+(float)1.0/i;
return s;
void main()
{
int i;float a=0.0;
for (i=1; i<3; i++)
a=a+f(i);
printf("a=%.4f\n", a);
运行结果:
a=1.0000
15. (于蕾)
#include <stdio.h> int f(int a);
void main()
int a=2, i;
for (i=0; i<3; i++)
printf("%d", f(i)); }
int f(int a)
```

```
int b=0, c=3;
b++;
c++;
return(a+b+c); }
运行结果:
567
16. (于蕾)
#include<stdio.h> int fun();
void main()
int i, x;
for (i=0; i \le 2; i++)
x=fun();
printf("%d\n", x);
}
int fun()
int x=3;
X^{++};
return x;
运行结果:
4
17. (王锋)
```

```
#include <stdio.h> float add(float x, float y);
void main()
float a, b, c;
a=1.0;
b=2.0;
c=add(a, b);
printf("%f\n", c);
float add(float x, float y)
float z;
z=x+y;
return(z);
运行结果:
3.000000
18. (王锋)
#include<stdio.h> void fun(int x, int cp, int dp)
{
cp=x++;
dp=++x;
void main(void) {
```

```
int a, c=80, d=-20;
a=30;
fun(a, c, d);
printf("%d,%d\n", c,d);
运行结果:
80, -20
19. (王锋)
#include <stdio.h> int f(int a, int b); void main()
int i=2, p;
p=f(i, i+1);
printf("%d\n",p);}
int f(int a, int b) {
int c;
if (a>b)
c=1;
else if (a==b)
c=0;
else
c=-1;
return (c);
运行结果:
```

```
-1
20. (王锋)
#include <stdio.h> int fun(int n)
if(n= =1) return 1;
else return fun(n-1)+3;
}
void main()
int i, j=0;
for(i=1;i<4;i++)
j=j+fun(i);
printf("j=%d\n", j); }
运行结果: j=12
21. (王锋)
#include <stdio.h> void f(int x, int y) {
int t;
if(x \le y)
\{t=x; x=y; y=t; \}
void main()
int a=4, b=3, c=5;
f (a, b);
f (a, c);
```

```
f(b,c);
printf("%d, %d, %d", a, b, c);
运行结果:
4, 3, 5
22. (王锋)
#include<stdio.h> int age(int n)
{
int c;
if(n==1)
c=10;
else
c = age(n-1) + 2;
return(c);
}
void main()
printf("%d", age(5)); }
运行结果:
18
23. (王锋)
#include <stdio.h> void hello_world(void) {
printf("Hello, world!\n");
```

```
void three_hellos(void) {
int counter;
for (counter =1;counter <= 3;counter++)</pre>
hello_world();
void main(void)
{
three_hellos();
运行结果:
Hello, world!
Hello, world!
Hello, world!
24. (王锋)
#include <stdio.h> int f(int a, int b); void main()
int x, i=1, k=3;
x=f(i,k);
printf("x=%d \n", x);
}
int f(int a, int b) {
int M=0;
while (b!=0)
```

```
M=M+a;
b--;
return M;
运行结果:
x=3;
25. (宋昕)
#include<stdio.h> f(int b[],int m,int n) {
int i, s = 0;
for (i = m; i < n; i++)
s += b[i];
return s;
int main()
int x, a[] = \{1, 2, 3, 4, 5, 6, 7, 8, 9\}, *p = a;
x = f(p, 3, 7);
printf("x=%d\n", x);
return 0;
运行结果:
x = 22
26. (宋昕)
```

```
#include <stdio.h> void fun(int i, int j) {
int x = 7;
printf("i = %d; j = %d; x = %d\n", i, j, x);
int main()
{
int i = 2, x = 5, j = 7;
fun(j, 6);
printf("i = %d; j = %d; x = %d\n", i, j, x);
return 0;
运行结果:
i = 7; j = 6; x = 7
i = 2; j = 7; x = 5
27. (宋昕)
#include <stdio.h>
void f(int a[])
int i=0;
while (a[i] \le 10)
printf("%d", a[i]);
i++;
```

```
}
int main()
int a[]=\{1, 7, 17, 9, 11, 34\};
f(a+1);
运行结果:
7
28. (宋昕)
#include <stdio.h>
void add(int x, int y, int z) {
z = x + y;
X = X * X;
y = y * y;
printf("(2) x = %d y = %d z = %d n", x, y, z);
}
int main()
int x = 2, y = 3, z = 0;
printf("(1) x = %d y = %d z = %d n", x, y, z);
add(x, y, z);
printf("(3) x = %d y = %d z = %d n", x, y, z);
return 0;
}
```

```
运行结果:
(1) x = 2 y = 3 z = 0 (2) x = 4 y = 9 z = 5 (3) x = 2 y = 3 z = 0
29. (宋昕)
#include \langle stdio.h \rangle int x1 = 30, x2 = 40; void sub(int x, int y) {
x1 = x;
x = y;
y = x1;
int main()
int x3 = 10, x4 = 20;
sub(x3, x4);
sub(x2, x1);
printf(" %d, %d, %d, %d\n", x3, x4, x1, x2);
return 0;
}
运行结果:
10, 20, 40, 40
30. (宋昕)
#include<stdio.h> int x;
void cube()
x = x * x * x;
int main()
```

```
{
x = 5;
cube();
printf(" %d\n", x);
return 0;
运行结果:
125
31. (宋昕)
#include <stdio.h>
invert(int *s, int i, int j) {
int t;
if(i < j)
{
invert(s, i + 1, j - 1);
t = *(s + i);
*(s + i) = *(s + j);
*(s + j) = t;
void main()
{
int a[6] = \{10, 6, 23, -90, 0, 3\}, i;
invert(a, 0, 5);
```

```
for(i = 0; i < 6; i++) printf("%d, ", a[i]);
printf("\n");
运行结果:
3, 0, -90, 23, 6, 10
32. (宋昕)
int func(int a[][3]) {
int i, j, sum=0;
for (i=0; i<3; i++)
for(j=0;j<3;j++){
a[i][j]=i+j;
if(i==j)
sum = sum + a[i][j];
return sum;
int main()
int a[3][3]={1,3,5,7,9,11,13,15,17};
int sum;
sum=func(a);
printf("sum=%d", sum);
return 0;
```

```
运行结果:
sum=6
33. (王勇超)
# include <stdio.h>
int i=10;
void fun();
void main()
{ int i;
for(i=2; i>0; i--)
fun();
}
void fun()
{
i*=2;
printf("i=%d\n", i);}
运行结果:
i=20
i = 40
34((王勇超)
#include <stdio.h> int fun(int n)
if (n<=1)
return 1;
else
```

```
return fun(n-1)*n; }
void main()
int i, j=0;
for (i=1; i \le 3; i++)
j += fun(i);
printf("j=%d\n", j); }
运行结果:
j=9
35. (王勇超)
#include <stdio.h> int funa(int a, int b) {
int t;
if (a > b)
t = a/b;
else
t = a\%22;
return t;
void main()
{
int a=33, b=22,c;
c=funa(a, b);
printf("c=%d\n", c); }
运行结果:
```

```
c=1
36. (王勇超)
# include <stdio.h> void fun(int i); void main()
{ int i;
for (i=2; i>0; i--)
fun(i);
}
void fun(int i) {
i*=2;
printf("+%d+", i); }
运行结果:+4++2+
37. (王勇超)
# include <stdio.h>
void fun(int n); void main()
{
int x=879;
fun(x);
void fun(int n) {
int a, b, c, t;
a = n \% 10;
b = (n/10) \% 10;
c = (n/100) \% 10;
if (a < b) \{ t = a; a = b; b = t; \}
```

```
if ( b < c ) { t = b; b = c; c = t; }
if (a < b) \{ t = a; a = b; b = t; \}
printf( "%d", b );
运行结果:8
38. (王勇超)
#include <stdio.h> int funa(int a, int b)
{
int t;
if (a > b)
t = a;
a = b;
b = t;
}
return t;
void main()
int a=33, b=22,c;
c=funa(a,b);
printf("c=%d\n", c); }
运行结果:
c = 33
```

```
39. (王勇超)
#include <stdio.h> int swap(int x, int y)
int z;
z=x%10;
x=y%10;
y=z;
z=x;
return z;
void main()
int a=38, b=29,c;
c=swap(a, b);
printf("%d%d\n", a,c);
运行结果:
389
40. (王勇超)
#include <stdio.h> void fun(int n) {
if(n==1)
printf("*\n");
else
```

```
printf("-");
fun(n-1);
void main()
{
int i, j=0;
for (i=1; i<4; i++)
fun(i);
printf("XiaoXin!"); }
运行结果:
XiaoXin!
                      第七章 数组 共40 道题
1. (王锋)
#include <stdio.h>
void main()
{
int a[2][3] = \{\{3, 2, 7\}, \{4, 8, 6\}\};
int i, j, m=0;
for (i=1; i \le 1; i++)
```

for $(j=0; j \le i; j++)$

```
m=m+a[i][j];
printf("m=%d", m);
运行结果:
m = 12
2. (王锋)
#include <stdio.h>
void main(void) {
int array[10] = \{1, 2, 4, 5, 6, 0, 0, 0, 0, 0\}, i;
printf("\n");
for (i=0; i<10; i++)
printf("%3d ", array[i]);
printf("\n");
for (i=9; i>=2; i--)
array[i] = array[i-1];
array[2] = 3;
for (i=0; i<10; i++)
printf("%3d ", array[i]);
printf("\n");
}
运行结果:
1 2 4 5 6 0 0 0 0 0
1 2 3 4 5 6 0 0 0 0
3. (王锋)
```

```
#include <stdio.h>
void main(void)
char a[]="ABCDEFGH", b[]="abCDefGh";
char *p1, *p2;
int k;
p1=a; p2=b;
for (k=0; k \le 7; k++)
if (*(p1+k)==*(p2+k))
printf("%c",*(p1+k));
printf("\n");
运行结果:CDG
4. (王锋)
#include <stdio.h>
#include <string.h> void main()
char a[30]="Hello";
char b[10]="Students";
char c[10]="Teachers";
strcat(a, c);
printf("%s, %s. \n", a, b); }
运行结果:
Hello Teachers, Students.
```

```
5((王锋)
#include <stdio.h>
void inv(int x[], int n); void main()
{
int i, a[10]={3,7,9,11,0,6,7,5,4,2};
inv(a, 10);
printf("The array has been reverted.\n");
for (i=0; i<10; i++)
printf("%d, ", a[i]);
printf("\n");
void inv(int x[], int n) {
int t, i, j, m=(n-1)/2;
for (i=0; i \le m; i++)
{
j=n-1-i;
t=x[i];
x[i]=x[j];
x[j]=t;
}
运行结果:
The array has been reverted. 2, 4, 5, 7, 6, 0, 11, 9, 7, 3,
6. (王锋)
```

```
#include<stdio.h>
void main()
float a[3][3]=\{1, 2, 3, 4, 5, 6, 7, 8, 9\}, sum=0;
int i;
printf("please input rectangle element:\n");
for (i=0; i<3; i++)
sum=sum+a[i][i];
printf("duijiaoxian he is %6.2f", sum);
运行结果:
please input rectangle element: duijiaoxian he is 15.00
7. (宋昕)
#include <stdio.h>
int main()
int i=1, n=3, j, k=3;
int a[5]=\{1, 4, 5\};
while (i \le n\&\&k \ge a[i]) i++;
for (j=n-1; j>=i; j--)
a[j+1] = a[j];
a[i] = k;
for (i=0; i \le n; i++)
printf("%2d",a[i]);
```

```
return 0;
运行结果:
1 3 4 5
8. (王锋)
#include<stdio.h>
void main()
{
int a[10]={0,1,2,3,4,5,6,7,8,9}, b[10],i,sum=0;
for (i=1; i<10; i++)
b[i]=a[i-1]+a[i];
sum=sum+b[i];
for (i=1; i<10; i++)
if (i%3==0)
sum=sum+b[i];
printf("sum=%3d", sum); }
运行结果:
sum=114
9. (王勇超)
#include <stdio.h> void main() {
int a[5]=\{2, 6, 1, 3, 4\}, n=5, i, j, t;
for (i=0, j=1; j \le n; j++)
```

```
if(a[i] \langle a[j])
{
a[j]=a[i];
i++;
for (i=0; i< n; i++)
printf("%d",a[i]); }
运行结果:
22121
10. (王勇超)
\#include \{stdio.h\} void funa(int x[], int n); void main()
{
int i, a[5] = \{3, 7, 9, 11, 0\};
funa(a, 5);
for (i=0; i<5; i++)
printf("%d,",a[i]);
printf("\n");
void funa(int x[], int n) {
int t, i, j, m=(n-1)/2;
for (i=0; i \le m; i++)
{
j=n-1-i;
t=_X[i];
```

```
x[i]=x[j];
x[j]=t;
运行结果:
0, 11, 9, 7, 3,
王勇超) 11. (
#include <stdio.h> void main() {
int a[5]={24, 15, 33, 64, 45}, n=5, i, j, t;
for (i=0; i < n; i++)
a[i]=a[i]\%10;
for(i=n; i>0; i--)
printf("%d,",a[i-1]); }
运行结果:
5, 4, 3, 5, 4,
12. (王勇超)
#include <stdio.h> void main() {
int a[5], i, j, t;
for(i=4;i>=0;i--)
scanf("%d", &a[i]);
for (i=0; i<5; i++)
a[i]=a[i]+10;
for (i=0; i<5; i++)
printf("%d,",a[i]); }
```

```
输入:42 31 24 15 16<回车>
运行结果:
26, 25, 34, 41, 52
13. (王勇超)
#include<stdio.h> main()
{
char a[][5]={"Zhong", "Gong", "ren"};
printf("%s\n%s\n", a[0],a[1]);
}
运行结果:
ZhongGong
Gong
14. (王勇超)
#include <stdio.h> void main() {
int a[3][3]=\{0, 1, 2, 3, 4, 5, 6, 7, 8\}, i, j, t;
for (i=0; i<3; i++)
for (j=0; j<3; j++)
a[i][j] += a[i][0];
for (i=0; i<3; i++)
printf("%d,",a[i][i]); }
运行结果:
0, 10, 20
15. (王勇超)
#include <stdio.h> void main() {
```

```
int a[3][3]=\{1, 2, 3, 4, 5, 6, 7, 8, 9\}, i, j;
for (i=0; i<3; i++)
for (j=0; j<3; j++)
a[i][j]+=a[i][2];
while (i>0)
{
i--;
printf("%d,",a[i][i]);
运行结果:
18, 11, 4
16. (王勇超)
#include<stdio.h> void main()
{
int i, j;
char a[10] = {\text{"ABCDEFGHIJ"}};
for (i=0; i<10; i++)
a[i]=a[i]+3;
printf("%c\n", a[6]); }
运行结果:
J
17. (王伟)
#include<stdio.h> int main()
```

```
{
int i, a[10] = \{0, 1, 2, 3, 4, 5, 6, 7\};
for (i=1; i<9; i++)
a[i]=a[i-1]+a[i+1];
printf("%d%d\n", a[5], a[8]);
return 0;
}
运行结果:
2027
18. (王伟)
#include<stdio.h> int main()
int i,a[]={1,2,3,4,5,6,7,8,9,10};
for (i=0; i<5; i++)
a[i]=i+2;
for(i=9;i>=0;i--)
if(a[i]%3==0)
printf("%d\n",a[i]);
return 0;
运行结果:
9
6
6
```

```
3
19. (王伟)
#include<stdio.h> int main()
int num=13, 1en=0, i=0, a[30];
do
{
a[1en] = num\%2;
num=num/2;
len++;
} while (num);
for (i=0; i<1en; i++)
printf("%d",a[len-i-1]);
printf("\n");
return 0;
运行结果:
1101
20. (王伟)
#include <stdio.h> int main()
{
int a[5]=\{6, 9, 12, 16\};
int x, i=3;
scanf("%d",&x);
```

```
while(i \ge 0 \&\& x \le a[i])
{
a[i+1]=a[i];
i--;
a[i+1]=x;
for (i=0; i<5; i++)
printf("%5d",a[i]);
printf("\n");
return 0;
输入:10<回车>
运行结果:
6 9 10 12 16
21. (王伟)
#include<stdio.h> int main()
int a[3][3] = \{\{2, 3\}, \{4, 5, 6\}, \{7, 8\}\};
int i=0, j=0, m;
m=a[0][0];
for (i=0; i<3; i++)
for (j=0; j<3; j++)
if(a[i][j] \le m)
m=a[i][j];
```

```
printf("m=%d\n", m);
return 0;
运行结果:
m=0
22. (王伟)
#include <stdio.h> #include <string.h> int main()
{
int i;
char str[20]="abcdef";
strcpy(str, "opqrst");
str[5]=' \setminus 0';
for (i=0; i \le trlen(str)-1; i++)
putchar(str[i]);
printf("\n");
return 0;
运行结果:
opqr
23. (王伟)
#include <stdio.h> #include <string.h> int main()
{
char a[10] = "AB", b[10] = "LMNP";
int i=0;
```

```
while(b[i])
{
a[i]=b[i];
i++;
a[i] = ' \setminus 0';
puts(b);
return 0;
运行结果:
LMNP
24. (王伟)
#include <stdio.h> #include <string.h> int main()
{
int i;
char str1[30]="abc", str2[3][5]={"defg", "hi\0j", "klm"};
for (i=1; i<3; i++)
strcat(str1, str2[i]);
puts(str1);
return 0;
运行结果:
abchiklm
25. (宋昕)
```

```
#include<stdio.h>
int main()
int i;
char a[] = "Time", b[] = "Tom";
for (i = 0; a[i] != '\0' \&\& b[i] != '\0'; i++) {
if (a[i] = b[i])
if (a[i] >= 'a' && a[i] <= 'z')
printf("%c", a[i] - 32);
else
printf("%c", a[i] + 32);
else printf("*");
}
return 0;
}
运行结果:t*M
26. (宋昕)
#include <stdio.h>
int main()
{
char a[4][10] = {"1234", "abcd", "xyz", "ijkm"};
int i = 3;
char (*p)[10] = a;
printf("output string: \n");
```

```
for (p = a; p < a + 4; p++, i--)
printf("%c", *(*p + i));
return 0;
运行结果:4cyi
27. (宋昕)
#include <stdio.h>
#include<string.h>
int main()
char str1[30], str2[] = "your book";
scanf("%s", str1);
strcpy(str1, str2);
printf("\n %s\n %d\n", str1, str1en(str2));
return 0;
输入:you are a student<回车>
运行结果:
your book
9
28. (宋昕)
#include<stdio.h> #include<string.h> int main()
{ char s1[10] = "java", s2[10] = "basic", s[10];
if(strcmp(s1, s2)) \{ strcpy(s, s1); puts(s); \}
```

```
printf("%d,%s\n", strlen(s2), strcat(s2, s1));
return 0;
运行结果:
java
9, basicjava
29. (宋昕)
#include < stdio.h > #include < string.h > int main ()
char *p = "abcdefgh" , c[10] = { "XYZ" } ;
p += 3 ;
puts ( strcat ( c , p ) ) ;
printf ( "%d\n" , strlen ( c ) ) ;
return 0;
}
运行结果:
XYZdefgh
8
30. (宋昕)
#include <stdio.h> int main()
{
int a[6][6], i, j;
for (i=1; i<6; i++)
for (j=1; j<6; j++)
```

```
a[i][j] = (i/j)*(j/i);
for(i=1;i<6;i++)
for (j=1; j<6; j++)
printf("%2d", a[i][j]);
printf("\n");
}
return 0;
运行结果:
1 0 0 0 0
0 1 0 0 0
0 0 1 0 0
0 0 0 1 0
0 0 0 0 1
31. (宋昕)
#include <stdio.h> int main()
int i, f[10];
f[0] = f[1] = 1;
for (i=2; i<10; i++)
f[i] = f[i-2] + f[i-1];
for(i=0;i<10;i++){
if(i\%4 == 0) printf("\n");
```

```
printf("%3d",f[i]);
return 0;
运行结果:
1 1 2 3
5 8 13 21
32. (宋昕)
\label{lem:linear_state} \mbox{\#include} \ \mbox{\ensuremath{$^{\prime}$}} \mb
char a[]="morming", t;
int i, j=0;
for (i=1; i<7; i++)
if(a[j] \langle a[i]) j = i;
t = a[j];
a[j] = a[7];
a[7] = a[j];
puts(a);
return 0;
运行结果:
\mathbf{m}\mathbf{o}
33. (于蕾)
#include <stdio.h> #include <string.h> void main()
```

```
{
char s[12] = "abcdef";
scanf("%s",s);
strcat(s, "xyz");
printf("%s\n",s);
运行结果:
hijxyz
34. (于蕾)
#include <stdio.h> void main()
int a[3][3] = \{\{3,4\}, \{5,6\}, \{7,8\}\};
int i, j, t=0;
for (i=1; i<3; i++)
for (j=0; j < i; j++)
t=t+a[i][j];
printf("t=%d\n",t);
运行结果:
t=20
35. (于蕾)
#include <stdio.h> void main()
int i, t, a[5] = \{1, 2, 3, 4, 5\};
```

```
t=a[0];
for (i=1; i<5; i++)
a[i-1]=a[i];
a[4]=t;
for (i=0; i<5; i++)
printf("%d", a[i]);
printf("\n");
}
运行结果:
23451
36. (于蕾)
#include <stdio.h>
void mystrcpy( char s1[ ] , char s2[ ]);
void main()
{
char a[50]="I am a teacher.";
char b[]="You are a student.";
printf(" a = %s \n", a);
mystrcpy( a , b );
printf(" a = %s \n", a); }
void mystrcpy( char s1[ ] , char s2[ ])
{
int i = 0;
while(s2[i] != '\0')
```

```
{
s1[i] = s2[i];
i++;
s1[i] = ' \setminus 0';
运行结果:
a= I am a teacher.
a= You are a student.
37. (于蕾)
#include <stdio.h>
void main()
{
int i, j, k=0, a[3][3]={1, 2, 3, 4, 5, 6};
for (i=0; i<3; i++)
for(j=i; j<3; j++) k=k+a[i][j];
printf("?ã%d" ?À, k);
运行结果:
17
38. (于蕾)
#include<stdio.h> void main()
int i, j=3, a[]=\{1, 2, 3, 4, 5, 6, 7, 8, 9, 10\};
```

```
for (i=0; i<5; i++)
a[i]=i*(i+1);
for (i=0; i<4; i++)
j + = a[i] * 3;
printf("%d\n", j); }
运行结果:
63
39. (于蕾)
#include <stdio.h> void main()
char c, string[81]= "How are you?";
int i, n=0, k=0;
for(i=0; c=string[i]; i++)
{
if(c==' ') k=0;
else if(k == 0)
k = 1;
n ++;
printf("%d\n", n); }
运行结果:
3
```

```
#include<stdio.h> #include<string.h>
void main()
char s[16]= "12345\0\t\t";
printf("%d,%d\n", strlen(s), sizeof(s));
}
运行结果:
5, 16
                 第八章 结构体 出 20 道题
1. (王伟)
#include <stdio.h> struct stri_type {
char ch1;
char ch2;
struct
{
int a;
int b;
}ins;
};
int main()
struct stri_type ci;
```

ci.ch1='a'; ci.ch2='A';

40. (于蕾)

```
ci.ins.a=ci.ch1+ci.ch2;
ci. ins. b=ci. ins. a-ci. ch1;
printf("%d, %c\n", ci. ins. a, ci. ins. b);
return 0;
运行结果:
162, A
2. (王伟)
#include <stdio.h> struct stud_type {
char num[11];
char name[11];
float score[3];
float average; };
int main()
{
struct stud_type stu={"200601", "wang", 80.0, 85.0, 70.0};
stu. average=(stu. score[0]+stu. score[1]+stu. score[2])/3;
printf("average=%5.2f\n", stu. average);
return 0;
运行结果:
average=78.33
3. (王伟)
```

#include <stdio.h> union out

```
{
int a[2];
struct
{
int b;
int c;
} in;
int d;
};
int main()
{
union out e;
int i;
e. in. b=1;
e. in. c=2;
e. d=3;
for (i=0; i<2; i++)
printf("%5d", e. a[i]);
printf("\n");
return 0;
}
运行结果:
3 2
4. (王伟)
```

```
#include <stdio.h>
#define PI 3.14 struct cir_type {
float r;
double area;
};
int main()
{
struct cir_type cir={5.0},*p=○
p-\rangle area=PI*p-\rangle r*p-\rangle r;
printf("area=%.31f\n", p->area);
return 0;
运行结果:
area=78.500
5. (王锋)
#include<stdio.h> struct int_char {
int i;
char ch;
};
int main()
struct int_char x=\{9, 'z'\};
printf("%d\t%5c\n", x. i+20, x. ch-2);
return 0;
```

```
}
运行结果:
29 x
6. (王锋)
#include<stdio.h> int main()
{
struct data
{
int m;
int n;
union
{
int y;
int z;
} da;
};
struct data intdata;
intdata.m=3;intdata.n=6;
intdata.da.y=intdata.m+intdata.n;
intdata.da.z=intdata.m-intdata.n;
printf("\%5d\%5d\n", intdata. da. y, intdata. da. z);
return 0;
运行结果:
```

```
-3 -3
7. (王锋)
#include<stdio.h>
int main()
{
int i;
float sum_average=0;
struct student
int num;
char name[10];
int score[2];
float average;
};
struct student data[2]={{1, "zhangsan", 60, 70}, {2, "Lisi", 89, 90}};
for (i=0; i<2; i++)
data[i].average=(data[i].score[0]+data[i].score[1])/2.0;
sum_average=sum_average+data[i].average;
}
sum_average=sum_average/2;
for (i=0; i<2; i++)
if(sum_average>data[i].average)
printf("%5d%10s%5.2f", data[i].num, data[i].name, data[i].average);
```

```
}
运行结果:
1 zhangsan65.00
8. (王锋)
#include<stdio.h> struct int_data { int d1, d2;}; int main()
{
struct int_data data[2]={\{2,3\},\{5,6\}\};
int i;
int sum=10;
for (i=0; i<2; i++)
scanf("%d%d", &data[i]. d1, &data[i]. d2);
sum=data[i].d1+data[i].d2+sum;
}
printf("sum=%d \n", sum);
return 0;
输入:20 30 40 50<回车>
运行结果:
sum=150
9. (王勇超)
#include<stdio.h> int main()
{
union exa
```

```
\Big\{
struct
{
int a;
int b;
}out;
int c;
int d;
}e;
e.out.a=10;
e.out.b=20;
e.c=2;
e.d=5;
printf("%d, %d\n", e. out. a, e. out. b);
return 0;
}
运行结果:
5, 20
王勇超) 10.(
#include<stdio.h>
struct st {
int a;
int b;
union
```

```
{
int e;
int f;
} c;
};
int main() {
struct st y;
y.a=10;
y.c.e=20;
y. c. f=y. a;
y.b=y.c.e;
printf("%d,%d\n", y. c. e, y. c. f);
return 0; }
运行结果:
10, 10
11. (王勇超)
#include<stdio.h>
struct sta {
int a;
char b;
};
struct\ stb\ \{
int a;
char b;
```

```
struct sta c;
};
int main() {
struct stb y;
y.a=10;
y.b='X';
y. c. a=y. a*2;
y. c. b=y. b--;
printf("%d,%c\n",y.c.a,y.c.b);
return 0;
运行结果:
20, X
12. (王勇超)
#include<stdio.h>
union st
{
int a[2];
int b[2];
int c;
};
int main() {
union st y;
y.a[0]=10;
```

```
y.b[1]=20;
y. c=30;
printf("%d, %d\n", y. a[0], y. a[1]);
return 0;
运行结果:
30, 20
13. (于蕾)
#include<stdio.h>
struct two
{
int n;
char ch;
};
void main()
struct two ex1=\{5, 't'\};
printf("%d,%c\n", ex1. n+10, ex1. ch-1);
}
运行结果:
15, s
14. (于蕾)
#include<stdio.h> struct two
```

```
int n;
char ch;
};
void func(struct two ex2);
void main()
struct two ex1=\{6, 'v'\};
func(ex1);
printf("%d, %c\n", ex1.n, ex1.ch);
getchar();
void func(struct two ex2)
{
ex2. n = ex2. n +20;
ex2. ch= ex2. ch -1;}
运行结果:
6, v
15. (于蕾)
#include <stdio.h> union exa{
struct {
int a;
int b;
}out;
int c;
```

```
int d;
};
void main()
union exa e;
e. c=1;
e.d=3;
e.out.a=e.c;
e.out.b=e.d;
printf("%d,%d\n", e. out. a, e. out. b);
运行结果:
3, 3
16. (于蕾)
#include <stdio.h> struct stu
{
int a;
int b;
struct poi
{
int x;
int y;
}ins;
};
```

```
void main()
struct stu outs;
outs. a=11;
outs.b=4;
outs.ins.x=outs.a+outs.b;
outs.ins.y=outs.a-outs.b;
printf("%d,%d", outs.ins.x, outs.ins.y);
运行结果:
15, 7
17. (宋昕)
#include<stdio.h> struct abc
{
int a, b, c; };
int main()
struct abc s[2] = \{\{1, 2, 3\}, \{4, 5, 6\}\};
int t;
t = s[0].a + s[1].c;
printf("t=%d \n", t);
return 0;
运行结果:
```

```
t=7
18. (宋昕)
#include <stdio.h>
struct st
{
int x, y;
} data[2] = {1, 10, 2, 20}; int main()
{
struct st *p = data;
printf("%d\n", p->y ) ;
printf("%d\n", (++p)->_X);
return 0;
运行结果:
10
2
19. (宋昕)
struct n
{
int x;
char c;
};
void func(struct n b) {
b.x = 20;
```

```
b.c = 'y';
int main()
struct n a = \{10, 'x'\};
func(a);
printf("%d,%c", a.x, a.c);
return 0;
运行结果:
10, x
20. (宋昕)
int main()
{
struct EXAMPLE
{
struct
{
int x;
int y;
} in;
int a;
int b;
} e;
```

```
e.a = 1;
e.b = 2;
e.in.x = e.a * e.b;
e.in.y = e.a + e.b;
printf("%d,%d", e.in.x, e.in.y);
return 0;
}
运行结果:
```

第九章 指针 共 20 道题

```
1. (王伟)
#include <stdio.h>
int main()
{
  int i=0,a[5]={11,12,13},*q;
  for(q=a;q<a+5;q++,i++)
  {
  *q+=5;
  printf("%5d",a[i]);
}
printf("\n");</pre>
```

```
return 0;
运行结果:
16 17 18 5 5
2. (王伟)
#include<stdio.h> void fun(int *p); int main()
{
int a[5]=\{1, 2, 3, 4, 5\}, *r=a;
fun(r);
printf("%d\n",*r);
return 0;
void fun(int *p) {
p=p+2;
printf("%d\n",*p); }
运行结果:
3
1
3. (王伟)
#include <stdio.h> int main()
{
int a[3][3]=\{0, 1, 2, 3, 4, 5, 6, 7, 8\};
int *p, (*q)[3];
int i=0;
```

```
for (q=a; q < a+3; q++, i++)
for (p=*q; p < =*q+i; p++)
printf("%5d",*p);
printf("\n");
return 0;
}
运行结果:
0
3 4
6 7 8
4. (王伟)
#include <stdio.h> #include <string.h> int main()
{
char str[20]="I am a student.",*p=str;
char *q="You are a teacher.";
p=p+7;
q=q+10;
strcpy(p,q);
puts(str);
return 0;
运行结果:
```

```
I am a teacher.
5. (王锋)
#include <stdio.h> void swap(int x, int y)
{
int z;
z=x;
x=y;
y=z;
void pswap(int *x, int *y)
int z;
z=*x;
*x=*y;
*y=z;
void main()
int a=3, b=2;
printf("first:a=%d, b=%d n", a, b);
swap(a, b);
printf("second:a=%d,b=%d\n", a,b);
pswap(&a, &b);
printf("third:a=%d, b=%d", a, b); }
```

```
运行结果:
first:a=3, b=2
second:a=3, b=2
third:a=2,b=3
6. (王锋)
#include <stdio.h>
void f(int a, int b, int *c, int *d)
{
a=30; b=40;
*c=a+b;
*d=*d-a;
void main()
{
int a=10, b=20, c=30, d=40;
f (a, b, &c, &d);
printf("%d, %d, %d, %d", a, b, c, d); }
运行结果:
10, 20, 70, 10
7. (王锋)
#include <stdio.h>
void ast(int *cp, int *dp) {
int x=4, y=3;
*_{Cp}=++_X+_y;
```

```
*dp=x-y;
}
void main()
{
int c, d;
ast(&c,&d);
printf("%d\n", c, d);}
运行结果:
8
2
8. (王锋)
#include<stdio.h> void main()
{
char s[]="ABCD",*p;
for (p=s+1; p < s+4; p++)
printf("%s\n",p);}
运行结果:
BCD
CD
D
9. (于蕾)
#include<stdio.h> void main()
char *p="I" am a student.";
```

```
p=p+3;
printf("%s", p); }
运行结果:
m a student.
10. (于蕾)
#include <stdio.h> void main()
{
char *p="This is a programe.";
p=p+10;
printf("%s", p); }
运行结果:
programe.
11. (于蕾)
#include <stdio.h> void add(int *p, int n) {
int *pend = p + n;
for( ; p \le pend; p++)
*p += 10;
void main()
{
int a[5]=\{1, 2, 3, 4, 5\}, *q = a;
add(q, 5);
for (q=a; q < a+5; q++)
printf("%4d", *q); }
```

```
运行结果:
11 12 13 14 15
12. (于蕾)
\#include <stdio.h> int f(int x, int *y); void main()
{
int a, b, c;
a=3;
b=5;
c=f(a, &b);
printf("%d, %d, %d\n", a, b, c);
int f(int x, int *y) {
int a=2;
x=x+a;
*y=x+a;
return(a);
运行结果:
3, 7, 2
13. (宋昕)
#include \langle stdio.h \rangle void fun (int x , int *y );
int main()
int a = 2, b = 3, *c = &b;
```

```
fun(a, c);
printf("a=%d, b=%d, c=%d\n", a, b, *c);
return 0;
void fun( int x , int *y ) {
int a = 4;
*y = x + a;
x = *y;
运行结果:
a=2, b=6, c=6
14. (宋昕)
#include <stdio.h>
void sub(int x, int y, int *z) {
*_Z = y - x;
int main()
int a, b, c;
sub(10, 5, &a);
sub (7, a, &b);
sub(a, b, &c);
printf(" % 4d, % 4d, % 4d\n", a, b, c);
return 0;
```

```
}
运行结果:
−5, −12, −7
15. (宋昕)
#include <stdio.h>
int main()
{
char a[] = "language", *p;
p = a;
while (*p != 'u')
printf(" % c", *p - 32);
p++;
return 0;
}
运行结果:
L A N G
16. (宋昕)
#include <stdio.h> int stre(char str[]) {
int num = 0;
while(*(str + num) != ' \setminus 0')
num++;
return num; }
```

```
int main()
char str[10], *p = str;
gets(p);
printf(" %d\n", stre(p));
return 0;
}
输入:happy<回车>
运行结果:
5
17. (王勇超)
#include<stdio.h> void f(int x, int *y) {
x=x%10;
*y=*y/10+x;
}
int main()
int a=88, b=99, *c;
c=&b;
f (a, c);
printf("%d, %d\n", a, b);
return 0;
运行结果:
```

```
88, 17
18. (王勇超)
#include<stdio.h> void main()
char a[][7]={ "Teacher", "Tom" , "Good"};
char *p=a[0];
p=p+3;
printf("%s\n%s\n", a[0], p);
运行结果:
TeacherTom
cherTom
19. (王勇超)
#include<stdio.h> void main()
{
char a[][7]={ "Teacher", "Tom" , "Good"};
char (*p)[7]=a;
printf("%s\n", a[0],++p);
运行结果:
TeacherTom
Tom
20. (王勇超)
#include <stdio.h> void ast(int x, int y, int *a, int *b)
```

```
{
**a=x+y;
**b=*a-y;
}
void main()
{
int a, b, c, d;
a=10;
b=20;
ast(a, b, &c, &d);
printf("%d, %d\n", c, d); }
运行结果:
30,10
```