电子系程设期末考试题

2020年1月3日

1.

```
29 17 27
    #include <stdio.h>
3
   int main()
4
5
       int a[3][3] = \{ 1,3,5,7,9,11,13,15,19 \}, i, j,sum1 = 0, sum2 = 0;
        for (i = 0; i < 3; i++)
 6
           for (j = 0; j < 3; j++)
               if (i == j) sum1 += a[i][j];
8
9
        for (i = 0; i < 3; i++)
10
           for (j = 2; j >= 0; j--)
               if (i + j == 2) sum2 += a[i][j];
11
       printf("%d %d\n", sum1, sum2);
12
13
       return 0;
14 }
```

```
#include <stdio.h>
 2
 3
    struct p
 4
 5
        int x[2];
 6
        char c;
 7
    };
 8
   void f1(struct p b)
9
10
        b.x[0] = 30; b.x[1] = 40; b.c = 'y';
11
12
    }
13
   void f2(int x[2])
14
15
16
        x[0] = 50; x[1] = 60;
17
    }
18
   int main()
19
20
21
        struct p a = \{ 10, 20, 'x' \};
22
23
        printf("%d,%d,%c ", a.x[0], a.x[1], a.c);
24
25
        printf("%d,%d,%c\n", a.x[0], a.x[1], a.c);
26
        return 0;
27 }
```

3. (输入数据为 HOW DO YOU DO<回车>)

```
#include <stdio.h>
 2
 3
    int main()
4
   {
        char str1[] = "how do you do";
5
        char str2[20], str3[20], * p1, * p2, * p3;
 6
 7
        p1 = str1; p2 = str2; p3 = str3;
        scanf("%s", p2);
8
9
        gets(p3);
        printf("%s ", p2);
10
        printf("%s ", p1);
11
12
        printf("%s\n", p3);
13
       return 0;
14 }
```

4.

```
#include <stdio.h>
 2
3
   void f(int n, int* s)
4
5
       int f1, f2;
 6
       if (n == 1 || n == 2)* s = 1;
 7
        else
8
       {
            f(n - 1, &f1);
9
           f(n - 2, &f2);
10
11
            *s = f1 + f2;
12
        }
13 }
14
15 | int main()
16
17
        int x;
18
        f(7, &x);
19
        printf("%d\n", x);
20
        return 0;
21 }
```

```
#include <stdio.h>
1
2
3
    int main()
4
   {
5
        int** k, a[6] = \{3,15,17,19,11,5\}, z;
6
        int* p = a;
        k = &p; z = *p;
7
8
        p = p + 1; z = z + **k;
9
        printf("%d\n", z);
       return 0;
10
11 }
```

```
#include <stdio.h>
 2
    int f(int a, int b)
4
 5
        int c;
 6
        c = a + b;
 7
        return c;
8
    }
9
10 | int main()
11
12
        int x = 7, y = 8, z = 9;
        printf("%d\n", f((x++, y--, x + y), z--));
13
14
        return 0;
15 }
```

```
#include <stdio.h>
 2
 3
   int main()
4
    {
 5
        int k;
 6
        for (k = 1; k < 5;)
 7
            switch (k)
8
9
            {
            case 1.printf("%d ", k++);
10
            case 2:printf("%d ", k++); break;
11
12
            case 4:printf("%d ", k++);
            case 3:printf("%d ", k++); break;
13
            default: printf("full\n");
14
15
16
        }
17
       return 0;
18 }
```

```
#include <stdio.h>
 2
 3
    int main()
 4
 5
        int i, j, n[3], k;
 6
        for (i = 0; i = 3; i++) n[i] = 0;
 7
        k = 3;
8
        for (i = 0; i < k; i++)
            for (j = 0; j < k; j++)
9
10
                n[j] = n[i] + 1;
11
        printf("%d\n", n[1]);
12
        return 0;
13 }
```

```
#include <stdio.h>
 2
 3
    int f(int a)
4
        static int c = 2;
 5
        int b = 5;
 6
 7
        b = b + 1; c = c + 1;
 8
        return a + b + c;
9
    }
10
11 int main()
12
13
        int i;
14
        static int a = 2;
        for (i = 0; i < 3; i++) printf("%d ", f(a++));
15
16
        return 0;
17 }
```

```
1 #include <stdio.h>
 2
    #define A 4
3
    #define B(x) = x^2/2
4
    int main()
5
    {
 6
        int a = 5, b =
7
        c = B(a + b);
        printf("%d\n", c);
8
9
        return 0;
10 }
```

```
#include <stdio.h>
 2
3
    struct HAP
4
 5
        int x;
 6
        int y;
 7
        struct HAP* p;
8
    } h[2];
9
    int main()
10
11
12
        h[0].x = 3; h[0].y = 3;
13
        h[1].x = 4; h[1].y = 4;
14
        h[0].p = &h[1];
15
        h[1].p = h;
        printf("dd^n, h[0].p->x, h[1].p->y);
16
17
        return 0;
18 }
```

```
1  #include <stdio.h>
2
3  int main()
4  {
5    int k = 8, m = 6, a, b, * p1 = &k, * p2 = &m;
6    a = *p1 == m;
7    b = (-*p1) / (*p2) + 7;
8    printf("%d %d\n", a, b);
9    return 0;
10  }
```

```
#include <stdio.h>
 2
 3
   int main()
 4
 5
        int a[10] = \{ 1,2,3,4,5,6,7,8,9,10 \};
 6
        int k, s, i;
7
        float ave;
        for (k = s = i = 0; i < 10; i++)
8
9
           if (a[i] % 2 != 0) continue;
10
11
            else
12
            {
13
                s += a[i];
14
               k++;
15
            }
16
        }
17
       if (k != 0)
18
19
            ave = s / k;
            printf("%d,%f\n", k, ave);
20
21
22
       return 0;
23 }
```

```
#include <stdio.h>
2
 3
   int main()
4
5
        int a[3][2] = \{ 1,2,3,4,5,6 \};
        int* p[3], i, j;
 6
7
        for (i = 0; i \times 3; i++) p[i] = a[i];
        for (i = 1; i < 3; i++)
8
            for (j = 0; j < 2; j++)
9
                printf("%d ", *(*(p + i) + j));
10
11
        return 0;
12 }
```

```
#include <stdio.h>
 2
 3
    int main()
 4
    {
 5
        int a[4] = \{ 1,10,20,30 \}, b[6] = \{ 0 \}, i;
 6
        FILE* fp;
 7
        fp = fopen("a.dat", "w+b");
        fwrite(a, sizeof(int), 4, fp);
 8
 9
        rewind(fp);
        fread(b, sizeof(int), 2, fp);
10
11
        fread(&b[4], sizeof(int), 2, fp);
12
        for (i = 0; i < 6; i++) printf("%d ", b[i]);
13
        return 0;
14 }
```

```
#include <stdio.h>
1
 2
    #include <malloc.h>
 3
    void f(int* p, int(*a)[3], int n)
 4
 5
 6
        int i, j;
        for (i = 0; i
 7
                         n; i++)
 8
            for (j = 0; \ j < n; j++)
9
                 *p = a[i][j] + 1;
10
11
                 p++;
12
            }
13
    }
14
15
   int main()
16
        int* p, a[3][3] = { \{1,3,5\},\{2,4,6\},\{7,8,9\} };
17
18
        p = (int*)malloc(sizeof(int) * 100);
19
        f(p, a + 1, sizeof(a) / sizeof(a[0]));
20
        printf("%d %d\n", p[2], p[5]);
21
        return 0;
22 }
```

```
#include <stdio.h>
1
2
   #include <string.h>
3
4
   int main()
5
   {
       char st[2] = "hahaa\0\t\'\\";
6
7
       printf("%d,%d,%s\n", strlen(st), sizeof(st), st);
8
       return 0;
9
  }
```

```
#include <stdio.h>
    int f(int(* p)[4], int n)
4
        int i;
 5
 6
        int m;
7
       m = **p;
        for (i = 1; i < n; i++)
9
           if (*(*p + i) > m) m = *(*p + i);
10
        return m;
11 }
12
   int main()
13
14 {
        int a[3][4] = \{ 1,2,3,4,5,6,7,6,5,4,3,2 \}, n = 3 * 4;
15
16
        printf("%d\n", f(a, n));
17
        return 0;
18 }
```

```
#include <stdio.h>
2
3
   int main()
4
5
        char a[4][5] = { "DCBA", "EFGH", "IJKL", "MNOP" };
6
       int i;
7
        for (i = 0; i < 4; i++)
            printf("%c", *(*(a + i) + i));
8
9
       return 0;
10 }
```

注:

- 1. 内容为回忆版,题目顺序为乱序
- 2. 不保证与原题完全一致,尤其空格与逗号之类的,但可以确定的是没有需要写多行的
- 3. 差一题没回忆出来, 若有同学能提供所缺题目信息, 不胜感激