# C语言程序设计期末题答案

#### 一、单选

1	2	3	4	5	6	7	8	9	10
А	В	D	С	D	С	D	В	С	Α

### 二、判断

1	2	3	4	5	6	7	8	9	10
$\sqrt{}$	×	×	$\sqrt{}$	×	×	×	$\sqrt{}$	×	√

#### 三、填空

1. 顺序结构、选择结构、循环结构

2.0,9

3. &、\*

4. n/100、(n/10)%10、n%10

## 四、程序阅读

1. 12 17

2. s=30

3.45

5 4

### 五、程序填空

```
1. [a * 100 + b * 10 + c], [a * a * a + b * b * b + c * c * c
```

2. m % i == 0, flag = 0, prime(n)

### 六、程序编写

```
printf("Two real roots: %.2f and %.2f\n", root1, root2);
10
        }
11
        else if (discriminant == 0) {
            double root = -b / (2 * a);
12
13
            printf("One real root: %.2f\n", root);
14
        }
15
        else {
16
            printf("No real roots\n");
17
        }
18 }
19
20
   int main() {
21
        double a, b, c;
22
23
        printf("Enter coefficients (a, b, c): \n");
24
        scanf("%lf %lf %lf", &a, &b, &c);
25
26
        if (a == 0) {
            printf("a cannot be zero.\n");
27
28
            return 1;
29
        }
30
31
        solve_quadratic_equation(a, b, c);
32
33
        return 0;
34 }
```

```
2.
        #include <stdio.h>
     2
     3
        int main() {
     4
            int sum_1 = 0, sum_2 = 0;
     5
     6
            for (int i = 1; i \le 10; i++) {
     7
                sum_1 += i;
                sum_2 += i * i;
     8
     9
            }
    10
            printf("Sum: %d\n", sum_1 + sum_2);
    11
    12
    13
            return 0;
    14 }
```

```
3.
        #include <stdio.h>
    1
    2
     3
        void bubble_sort(int arr[], int n) {
            for (int i = 0; i < n - 1; i++) {
    4
     5
                for (int j = 0; j < n - i - 1; j++) {
     6
                    if (arr[j] < arr[j + 1]) {
     7
                        int temp = arr[j];
    8
                        arr[j] = arr[j + 1];
    9
                        arr[j + 1] = temp;
    10
                    }
    11
```

```
12 }
13 }
14
15 int main() {
16
       int a[10];
17
18
       printf("Enter 10 integers:\n");
       for (int i = 0; i < 10; i++) {
19
20
            scanf("%d", &a[i]);
21
       }
22
23
       bubble_sort(a, 10);
24
25
       printf("Sorted array in descending order:\n");
26
       for (int i = 0; i < 10; i++) {
           printf("%d ", a[i]);
27
28
       printf("\n");
29
30
31
       return 0;
32 }
```