

一:

1. B
2. D
3. C
4. A //其中3.0为double型数据
5. A
6. B
7. A
8. C
9. D
10. D

二:

1.
sum=10
2.
2 3 5 7
3.
1 6 1 7
4.
5 1 10
5.
10 20

三:

1.
(1)

```
1  #include<math.h>
```

- (2)

```
1  1e-6
```

- (3)

```
1  x=y
```

- (4)

```
1  (x*x-10*(x*sin(x)+cos(x)))/(2*x-10*sin(x))
```

- (5)

```
1 >
```

2.

(6)

```
1 col=row-1;col>1;col--
```

(7)

```
1 col
```

(8)

```
1 col-1
```

(9)

```
1 col<=row
```

(10)

```
1 printf("\n")
```

四:

1.

```
1 #include <stdio.h>
2 #include <math.h>
3
4 void fun(int num){
5     int n=0;
6     int temp = num;
7     while (temp){
8         n++;
9         temp=temp/10;
10    }
11    printf("这是一个%d位数\n", n);
12    for (int i = 0; i < n; ++i) {
13        temp = num / (int)pow(10, i);
14        temp%=10;
15        printf("第%d位数是%d\n", n-i, temp);
16    }
17    for (int j = 0; j < n; ++j) {
18        temp = num/(int)pow(10,j);
19        temp%=10;
20        printf("%d", temp);
21    }
22    printf("\n");
23 }
```

```

24 int main(){
25     int num;
26     printf("请输入正整数num\n");
27     scanf("%d",&num);
28     fun(num);
29     return 0;
30 }

```

2.

```

1  #include <stdio.h>
2  int vaild(int a,int b,int c){
3      int sum = a*a+a+b*b*b+c*c*c;
4      if(sum==(a*100+b*10+c))
5          return sum;
6      else
7          return 0;
8  }
9  int main() {
10     for (int i = 1; i < 10; ++i) {
11         for (int j = 0; j < 10; ++j) {
12             for (int k = 0; k < 10; ++k) {
13                 int rs = vaild(i, j, k);
14                 if (rs!=0)
15                     printf("%d\n", rs);
16             }
17         }
18     }
19     return 0;
20 }

```

3.

```

1  #include <stdio.h>
2
3  int main() {
4      double score[10][5] = {{87,89,67,56,54},{65,63,87,78,56},
5      {87,65,67,54,46},{90,67,54,46,76},{56,76,78,65,76},
6      {43,54,65,76,47},{87,57,54,76,87},{82,94,85,85,53},{74,62,58,73,83},
7      {87,67,58,74,87}};
8      double result1[10];
9      double result2[5];
10     double * average(double score[][5], double *);
11     double *p;

```

```

10  p = average(score,result1);
11  double *avergaeclazz(double score[][5], double *);
12  double *c;
13  c = avergaeclazz(score,result2);
14  double abc(double *av, int n);
15  double sa = abc(p, 10);
16  double ca = abc(c, 5);
17  for (int i = 0; i < 10; ++i) {
18  for (int j = 0; j < 5; ++j) {
19  printf("%f\t",score[i][j]);
20  }
21  printf("\n");
22  }
23  for (int k = 0; k < 10; ++k) {
24  printf("%f\t", *(p+k));
25  }
26  printf("\n");
27  for (int l = 0; l < 5; ++l) {
28  printf("%f\t", *(c + l));
29  }
30  printf("\nsa=%f\tca=%f\n",sa,ca);
31
32  return 0;
33  }
34  double * average(double score[][5], double *result){
35  for (int i = 0; i < 10; ++i) {
36  double all = 0;
37  for (int j = 0; j < 5; ++j) {
38  all+=score[i][j];
39  }
40  result[i] = all / 5;
41  }
42  return result;
43  }
44  double * avergaeclazz(double score[][5], double *result){
45  for (int i = 0; i < 5; ++i) {
46  double all = 0;
47  for (int j = 0; j < 10; ++j) {
48  all+=score[j][i];
49  }

```

```

50  result[i] = all / 10;
51  }
52  return result;
53  }
54
55  double abc(double *av,int n){
56  double a=0,b=0;
57  for (int i = 0; i < n; ++i) {
58  a += *(av+i) * *(av+i);
59  b += *(av+i);
60  }
61  a = a/n;
62  b = b/n;
63  b=b*b;
64  return a-b;
65  }

```

4.

```

1  #include <stdio.h>
2  int main() {
3  int matrix[5][5];
4  for (int i = 0; i < 5; ++i) {
5  for (int j = 0; j < 5; ++j) {
6  scanf("%d", &matrix[i][j]);
7  }
8  }
9  void search(int m[][5]);
10 search(matrix);
11 return 0;
12 }
13 void search(int m[][5]){
14 int flag=0;
15 for (int i = 0; i < 5; ++i) {
16 int t = m[i][0];
17 int y=0;
18 for (int j = 0; j < 5; ++j) {
19 if (t<m[i][j]){
20 t=m[i][j];
21 y=j;
22 }
23 }

```

```
24  for (int k = 0; k < 5; ++k) {
25      if (t>m[k][y] && k!=y){
26          flag=0;
27          break;
28      }
29      flag=1;
30  }
31  if(flag){
32      printf("%d\n", t);
33      break;
34  }
35  }
36  if (flag==0)
37      printf("none\n");
38  }
```