

一、

1. C
2. A
3. C
4. B
5. D
6. D
7. D
8. A
9. B
10. A

二、

1. 字母或者下划线
2. 8 1
3. $x \leq y \ \&\& \ y \leq z$
4. $\text{sqrt}(s*(s-a)*(s-b)*(s-c))$
5. $\text{ch} > '0' \ \&\& \ \text{ch} < '9'$
6. double
7. 0 8
8. 26

三、

1.

(1)

```
1 x+8
```

(2)

```
1 cos(x)
```

2.

(3)

```
1 m=n
```

(4)

```
1 m //m>0
```

(5)

```
1 m/=10 //m=m/10
```

3.

(6)

```
1 i<10
```

(7)

```
1 j%3!=0 //或j%3
```

4.

(8)

```
1 <stdio.h>
```

(9)

```
1 n
```

(10)

```
1 n=n/10 //n/=10
```

5.

(11)

```
1 0
```

(12)

```
1 1
```

(13)

```
1 N-1
```

(14)

```
1 0
```

(15)

```
1 (i+2+N)%N //之前i已经减1
```

五、

1.

```
1 #include <stdio.h>
2 int H(int n,int x){
3     if(n==0)
4         return 1;
5     if(n==1)
6         return 2*x;
7     return 2 * x * H(n - 1, x) - 2 * (n - 1) * H(n - 2, x);
8 }
9 int main() {
10     int n,x;
11     scanf("%d%d", &n, &x);
```

```

12  printf("%d\n", H(n, x));
13  return 0;
14  }

```

2.

```

1  #include <stdio.h>
2  #include <math.h>
3
4  int main() {
5      int n=2;
6      double x,y;
7      x=2;
8      y=0;
9      while (fabs(x-y)>=1e-6){
10         y=x;
11         x = pow(1 + 1.0 / n, n);
12         n++;
13     }
14     printf("e=%f\tn=%d\n", x, n);
15     return 0;
16 }

```

3.

```

1  #include <stdio.h>
2  #include <stdlib.h>
3  struct student{
4      int rank;
5      int num;
6      char name[10];
7      double math_score;
8      double chinese_score;
9      double english_score;
10     double total;
11 };
12 //将参数二的值赋给参数一
13 void valuation(struct student *p,struct student *q){
14     p->total = q->total;
15     p->num = q->num;
16     for (int i = 0; i < 10; ++i) {
17         p->name[i] = q->name[i];
18     }
19     p->math_score = q->math_score;

```

```

20  p->chinese_score = q->chinese_score;
21  p->english_score = q->english_score;
22
23  }
24  void print(struct student *s){
25      printf("学号:%d\t姓名%s\t数学:%3.1f\t语文:%3.1f\t英语:%3.1f\t总分:%3.1f\t
名次:%d\n", s->num, s->name,
26      s->math_score, s->chinese_score, s->english_score, s->total, s->rank);
27  }
28  int main() {
29      printf("请输入学生总人数:\n");
30      int n;
31      scanf("%d", &n);
32      struct student *p = (struct student *)malloc(n*sizeof(struct student));
33      printf("请输入学生信息\n");
34      for (int i = 0; i < n; ++i) {
35          scanf("%d%s%lf%lf%lf", &((p+i)->num), (p+i)->name, &((p+i)->math_score), &
((p+i)->chinese_score), &((p+i)->english_score));
36      }
37      for (int j = 0; j < n; ++j) {
38          (p+j)->total = (p+j)->math_score+(p+j)->chinese_score+(p+j)->english_sc
ore;
39      }
40      struct student *temp = (struct student *)malloc(sizeof(struct
student));
41      for (int i = 0; i < n-1; ++i) {
42          for (int j = i+1; j < n; ++j) {
43              if ((p+i)->total < (p+j)->total){
44                  valuation(temp, (p + i));
45                  valuation((p + i), (p + j));
46                  valuation((p + j), temp);
47              }
48          }
49      }
50      free(temp);
51      p->rank=1;
52      print(p);
53      for (int k = 1; k < n; ++k) {
54          if((p+k)->total == (p+k-1)->total)
55              (p+k)->rank = (p+k-1)->rank;
56      else

```

```
57  (p+k)->rank = k+1;
58  print(p+k);
59  }
60  FILE *file;
61  if((file=fopen("student.dat","wb")) == NULL){
62  printf("open file error!");
63  exit(0);
64  }
65  for (int i = 0; i < n; ++i) {
66  fwrite(p+i, sizeof(struct student),1,file);
67  }
68  free(p);
69  return 0;
70 }
```