Week2-Assignment-report

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1. *(s+4) p[4]

2.

sort.c:

```
C sort.c > ♦ main()
 1 #include <stdio.h>
     #include <malloc.h>
     struct Student
 3
 4
 5
          int number;
          int score;
 6
 7
     };
 8
     int main()
 9
10
11
          scanf("%d", &n);
12
          struct Student *students = (struct Student *)malloc(n * sizeof(struct Student));
13
          for (int i = 0; i < n; i++)
14
15
              scanf("%d %d", &(students + i)->number, &(students + i)->score);
16
17
18
          for (int i = 0; i < n - 1; i++)
19
              int min = 10000;
20
21
              int id = -1;
22
              for (int j = i; j < n; j++)
23
24
                  if (students[j].score < min)</pre>
25
                      min = students[j].score;
26
27
                      id = j;
28
29
              if (id > 0)
30
31
                  struct Student tmp = students[i];
32
                  students[i] = students[id];
students[id] = tmp;
33
34
35
36
          printf("Output:\n");
37
38
          for (int i = 0; i < n; i++)
39
              printf("%d %d\n", students[i].number, students[i].score);
40
41
42
```

ex3.c:

```
1 #include <stdio.h>
    #include <string.h>
    struct AGE
3
4
 5
        int year;
        int month;
 6
 7
        int day;
 8
    }:
    struct STUDENT
9
10
        char name[20];
11
12
        int num;
        struct AGE birthday;
13
14
        float score;
   };
15
16
    int main(void)
17
18
        struct STUDENT student1;
        struct STUDENT *p = NULL;
19
        p = &student1;
20
21
        // ----start--
        // 1. 填空,完成名字赋值(将下划线替换成你的代码)
22
23
        strcpy(p->name, "OS Bob");
        // 2. 设置出生年月为2001-2-23
24
25
        p->birthday.year = 2001;
        p->birthday.month = 2;
26
        p->birthday.day = 23;
27
28
        // 3. 填空,学号和分数设置为12100001和100(将下划线替换成你的代码)
29
30
        p->num = 12100001;
        p->score = 100;
31
32
        // 4.请将相关信息打印到屏幕上,并截图
33
        printf("Student's name:%s sid:%d score:%.2f birthday:%d-%d\n",
34
35
              p->name,
36
               p->num,
37
               p->score,
              p->birthday.year,
38
39
              p->birthday.month,
              p->birthday.day);
40
41
        // ----end----
42
43
        return 0;
44
45
```

result:

```
11911609JohnnyGe@johnny-Ge-WXX9:~/OS/lab2$ g++ ex3.c
11911609JohnnyGe@johnny-Ge-WXX9:~/OS/lab2$ ./a.out
Student's name:OS_Bob sid:12100001 score:100.00 birthday:2001-2-23
11911609JohnnyGe@johnny-Ge-WXX9:~/OS/lab2$
```

```
C linklist.c > 分 main()
 1 #include <stdio.h>
 2 #include <malloc.h>
 3 #include <stdlib.h>
 4
    typedef struct Link {
 5
          int elem;
 6
 7
          struct Link *next;
     }link;
 8
 9
     int main()
10
11
          link p1;
12
13
          p1.elem = 0;
          pl.next = NULL;
14
          int n = 0;
15
          scanf("%d", &n);
16
          for (int i = 0; i < n; i++)
17
18
          {
              link *p2 = (link *)malloc(sizeof(link));
19
20
              int x = 0;
              scanf("%d", &x);
21
              p2 -> elem = x;
22
23
              p2->next = NULL;
              if (p1.next != NULL)
24
25
              {
26
                  p2->next = p1.next;
27
              p1.next = p2;
28
29
          link *p = &p1;
30
          while (p->next != NULL)
31
32
33
              printf("%d ", p->elem);
34
              p = p->next;
35
         printf("%d ", p->elem);
36
37
```