

```

1 //
2 // Created by hfwei on 2023/9/21.
3 //
4
5 #include <math.h>
6 #include <stdio.h>
7 #include <ctype.h>
8
9 int main(void) {
10     char first_name[10];
11     char last_name[10];
12
13     char gender;
14
15     int birth_year;
16     int birth_month;
17     int birth_day;
18     char weekday[10];
19
20     int c_score;
21     int music_score;
22     int medicine_score;
23     int rank;
24
25     /*
26      * zero or more directives:
27      * (1) one or more white-space characters ( , \t, \n);
28      * (2) ordinary characters (neither % nor white-space characters)
29      * (3) conversion specification introduced by %
30      */
31     scanf("%9s%9s %c %d-%d-%d %9s %d%d%d %*lf%*lf %d%%",
32           first_name, last_name, &gender,
33           &birth_year, &birth_month, &birth_day, weekday,
34           &c_score, &music_score, &medicine_score,
35           &rank);
36
37     double mean = (c_score + music_score + medicine_score) / 3.0;
38
39     double sd = sqrt((pow(c_score - mean, 2) +
40         pow(music_score - mean, 2) +
41         pow(medicine_score - mean, 2)) / 3.0);
42
43
44     printf("%s %s \t %c\n"
45           "%.2d-%d-%d \t %.3s.\n"
46           "%d \t %d \t %d\n"
47           "%.1f \t %.2f \t %d%%\n",
48           first_name, last_name, toupper(gender),
49           birth_month, birth_day, birth_year, weekday,
50           c_score, music_score, medicine_score,
51           mean, sd, rank);
52
53     return 0;

```

File - D:\cpl\2023-cpl-coding-0\1-types-io\admin-scanf.c

```
54  
55     return 0;  
56 }
```