```
1 //
 2 // A (naive) administration system (only for 💵 🗎
 3 //
 4 // Created by hengxin on 10/10/21.
 5 //
 6
 7 #include <stdio.h>
 8 #include <math.h>
 9 #include <ctype.h>
10
11 int main() {
    /**
12
13
      * Name and gender
14
      */
     char first_name[10];
15
16
     char last_name[10];
17
     char gender;
18
19
    /**
    * Birthday
20
21
      */
     int birth_year;
22
23
     int birth_month;
24
     int birth_day;
25
     char weekday[10];
26
27
    /**
28
    * Scores
29
     */
30
     int c_score;
31
     int music_score;
32
     int medicine_score;
33
    /**
34
35
     * Statistics
36
     */
37
     double mean;
38
     double standard_deviation;
```

```
39
     int rank;
40
41
     /**
42
      * Basic scanf:
43
      *
44
      * Tayu lo
45
      * M
      * 1957-7-20
46
47
      * Tuesday
48
      * 40 100 80
49
      * 73.3 24.94 10%
50
      */
51
     scanf("%9s %9s %c %d-%d-%d %9s %d %d %d %lf %lf
    %d%%",
           first_name, last_name, &gender,
52
53
           &birth_year, &birth_month, &birth_day,
   weekday,
54
           &c_score, &music_score, &medicine_score,
           &mean, &standard_deviation,
55
56
           &rank);
57
58 // /**
      * Expected scanf
59 //
60 //
       */
61 // scanf("%9s %9s %c %d-%d-%d %9s %d %d %d %*f
    %*f %d%%",
62 //
             first_name, last_name, &gender,
63 //
             &birth_year, &birth_month, &birth_day,
   weekday,
64 //
             &c_score, &music_score, &medicine_score
65 //
             &rank);
66
67
     /**
68
     * Statistics
69
     */
70
     mean = (c_score + music_score + medicine_score
   ) / 3.0;
```

```
File - D:\cpl\cpl-coding-0\2021-CPL\1-types-io\admin-scanf.c
       standard_deviation = sqrt((pow(c_score - mean
 71
     , 2) + pow(music_score - mean, 2) + pow(
    medicine_score - mean, 2)) / 3.0);
 72
      printf("%s %s \t %c \n"
 73
              "%.2d-%d-%d, %.3s.\n"
 74
               "C = %d \t Music = %d \t Medicine = %d\
 75
    n"
               "Mean = %.1f \ \ SD = %.2f \ \ Top = %d%%
 76
     \n",
              first_name, last_name, toupper(gender),
 77
               birth_month, birth_day, birth_year,
 78
    weekday,
               c_score, music_score, medicine_score,
 79
              mean, standard_deviation, rank);
 80
 81
 82
       return 0;
 83 }
```