

lab03

```
$ gcc lab03.c
$ ./a.out
Input a date (m/d): 1/1
It is the day 1 of the year,
It is day 1 of the year,
in the week of 1 of the year,
in the week 1 of the year,
and it is Wednesday.
```

Program output is incorrect

```
$ ./a.out
Input a date (m/d): 12/31
It is the day 366 of the year,
It is day 366 of the year,
in the week of 53 of the year,
in the week 53 of the year,
and it is Thursday.
```

Program output is incorrect

```
$ ./a.out
Input a date (m/d): 3/1
It is the day 61 of the year,
It is day 61 of the year,
in the week of 10 of the year,
in the week 10 of the year,
and it is Sunday.
```

Program output is incorrect

```
$ ./a.out
Input a date (m/d): 9/14
It is the day 258 of the year,
It is day 258 of the year,
in the week of 38 of the year,
in the week 38 of the year,
and it is Monday.
```

Program output is incorrect

```
$ ./a.out
Input a date (m/d): 1/4
It is the day 4 of the year,
```

It is day 4 of the year,
in the week of 1 of the year,
in the week 1 of the year,
and it is Saturday.

Program output is incorrect

CPU time: 0.00500239 sec

score: 78

- o. [Output] Program output is incorrect
- o. [Format] Program format can be improved

lab03.c

```
1 // EE231002 Lab03 Day of the Year
2 // 109061158, 簡佳吟
3 // Date: 2020/10/12
4
5
6 #include <stdio.h>
7 int main(void)
8 {
9     int month;        // the month
10    int day;           // the day
11    int day_year;      // day of the year
12    int week_year;     // week of the year
13    int day_week;      // day of the week
14
15    printf("Input a date (m/d): ");           // print the string
16    scanf("%d/%d", &month, &day);           // read the number
17
18
19    switch (month) {
20        case 1: day_year = day;                // store day_year
21                break;                        // jump
22        case 2: day_year = day + 31;            // store day_year
23                break;                        // jump
24                break;                        // jump
25        case 3: day_year = day + 60;            // store day_year
26                break;                        // jump
27                break;                        // jump
28        case 4: day_year = day + 91;            // store day_year
29                break;                        // jump
30                break;                        // jump
31        case 5: day_year = day + 121;           // store day_year
32                break;                        // jump
33                break;                        // jump
34        case 6: day_year = day + 152;           // store day_year
35                break;                        // jump
36                break;                        // jump
37        case 7: day_year = day + 182;           // store day_year
38                break;                        // jump
39                break;                        // jump
40        case 8: day_year = day + 213;           // store day_year
41                break;                        // jump
42                break;                        // jump
43        case 9: day_year = day + 244;           // store day_year
44                break;                        // jump
45                break;                        // jump
46        case 10: day_year = day + 274;          // store day_year
47                break;                        // jump
48                break;                        // jump
49        case 11: day_year = day + 305;          // store day_year
50                break;                        // jump
51                break;                        // jump
52        case 12: day_year = day + 335;          // store day_year
53                break;                        // jump
54                break;                        // jump
55    }
```

```

35         break;                                // jump
           break;                                // jump
36         case 10: day_year = day + 274;         // store day_year
37             break;                             // jump
           break;                                // jump
38         case 11: day_year = day + 305;         // store day_year
39             break;                             // jump
           break;                                // jump
40         case 12: day_year = day + 335;         // store day_year
41             break;                             // jump
           break;                                // jump
           This break is not needed.
42     }
}

43
44     week_year = (day_year + 2) / 7 + 1;         // store week_year
45     printf("It is the day %d of the year,\n", day_year); // prompt
46     printf("in the week of %d of the year,\n", week_year); // prompt
47
48     day_week = day_year % 7;                    // store day_week

    This line has more than 80 characters
49
50     switch (day_week) {
51         case 0: printf("and it is Tuesday.\n"); break;
52         case 1: printf("and it is Wednesday.\n"); break;
53         case 2: printf("and it is Thursday.\n"); break;
54         case 3: printf("and it is Friday.\n"); break;
55         case 4: printf("and it is Saturday.\n"); break;
56         case 5: printf("and it is Sunday.\n"); break;
57         case 6: printf("and it is Monday.\n"); break; // prompt
           This break is not needed.
58     }
59     return 0;                                // done and return
60 }
61
62
63
64

```