

lab03

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$ gcc lab03.c
$ ./a.out
Input a date (m/d): 1/1
It is day 1 of the year,
in the week 1 of the year,
and it is Wednesday.
$ ./a.out
Input a date (m/d): 12/31
It is day 366 of the year,
in the week 53 of the year,
and it is Thursday.
$ ./a.out
Input a date (m/d): 3/1
It is day 61 of the year,
in the week 10 of the year,
and it is Sunday.
$ ./a.out
Input a date (m/d): 9/14
It is day 258 of the year,
in the week 38 of the year,
and it is Monday.
$ ./a.out
Input a date (m/d): 1/4
It is day 4 of the year,
in the week 1 of the year,
and it is Saturday.
CPU time: 0.0046943 sec
score: 70
o. [Output] Program output is correct, good.
o. [Format] Program format can be improved
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lab03.c

```
1 // EE2310 lab02 Day of the Year
  // EE2310 lab03 Day of the Year
2 // 109061217, 林峻霆
3 // Date: 2020/10/5
  Need a blank line here.
4 #include<stdio.h>
  #include <stdio.h>
5 #include<stdlib.h>
  #include <stdlib.h>
  Why do we need stdlib?
6
7 int main(void)
8 {
9     int month;                // input month
10    int day;                  // input day
11    int total_day;           // total day
12    int week;                // week
13    int weekday;             // on which weekday
14
15    printf("Input a date (m/d): "); // prompt for input
16    scanf("%d/%d", &month, &day); // input month, day
17
18    switch (month) {          // judge and calculate
19    case 1:
20        case 1:
21            total_day = day;
22            total_day = day;
23            break;
24            break;
25    case 2:
26        case 2:
27            total_day = day + 31;
28            total_day = day + 31;
29            break;
30            break;
31    case 3:
32            total_day = day + 60;
33            total_day = day + 60;
34            break;
35            break;
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28     case 4:
        case 4:
29         total_day = day + 91;
            total_day = day + 91;
30         break;
            break;
31     case 5:
        case 5:
32         total_day = day + 121;
            total_day = day + 121;
33         break;
            break;
34     case 6:
        case 6:
35         total_day = day + 152;
            total_day = day + 152;
36         break;
            break;
37     case 7:
        case 7:
38         total_day = day + 182;
            total_day = day + 182;
39         break;
            break;
40     case 8:
        case 8:
41         total_day = day + 213;
            total_day = day + 213;
42         break;
            break;
43     case 9:
        case 9:
44         total_day = day + 244;
            total_day = day + 244;
45         break;
            break;
46     case 10:
        case 10:
47         total_day = day + 274;
            total_day = day + 274;
48         break;

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        break;
49     case 11:
        case 11:
50         total_day = day + 305;
            total_day = day + 305;
51         break;
            break;
52     case 12:
        case 12:
53         total_day = day + 335;
            total_day = day + 335;
54         break;
            break;
    This break is not needed.
55 }
56
57 week = ( total_day + 9 ) / 7;           // calculate the week
    week = (total_day + 9) / 7;           // calculate the week
58 weekday = ( total_day + 3 ) % 7;       // calculate the weekday
    weekday = (total_day + 3) % 7;       // calculate the weekday
59
60 printf("It is day %d of the year,\n", total_day); // print total day
61 printf("in the week %d of the year,\n", week);    // print week
62
63 switch (weekday) {                       // judge and print
64     case 0:
        case 0:
65         printf("and it is Saturday.");
            printf("and it is Saturday.");
66         break;
            break;
67     case 1:
        case 1:
68         printf("and it is Sunday.");
            printf("and it is Sunday.");
69         break;
            break;
70     case 2:
        case 2:
71         printf("and it is Monday.");
            printf("and it is Monday.");

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72         break;
           break;
73     case 3:
           case 3:
74         printf("and it is Tuesday.");
           printf("and it is Tuesday.");
75         break;
           break;
76     case 4:
           case 4:
77         printf("and it is Wednesday.");
           printf("and it is Wednesday.");
78         break;
           break;
79     case 5:
           case 5:
80         printf("and it is Thursday.");
           printf("and it is Thursday.");
81         break;
           break;
82     case 6:
           case 6:
83         printf("and it is Friday.");
           printf("and it is Friday.");
84         break;
           break;
           This break is not needed.
85     }
86     printf("\n");                                // new line
87
88     return 0;                                    // end the program
89 }

```