lab03

```
1  // EE231002 Lab03. Day of the Year and Day of the week
2  // 108061213, 劉奕緯
3  // Date: Sep, 30, 2019
4
5  #include <stdio.h>                        // use the standard io library
6
7  int main(void)
8  {
9      int year;                            // the year of date
10     int month;                           // the month of date
11     int date;                            // the date of the date
12     int sum;                             // sum of days
13
14     printf("Enter a date (y/m/d):");     // prompt the date
15     scanf("%d/%d/%d", &year, &month, &date);// input the date
       scanf("%d/%d/%d", &year, &month, &date);  // input the date
16     sum=date;                            // add up the date
       sum = date;                             // add up the date
17     switch (month) {                     // add up the days of past month
18         case 12 : sum += 30;
19         case 11 : sum += 31;
20         case 10 : sum += 30;
21         case 9 : sum += 31;
22         case 8 : sum += 30;
23         case 7 : sum += 31;
24         case 6 : sum += 31;
25         case 5 : sum += 30;
26         case 4 : sum += 31;
27         case 3 : sum += 28;
28                 if ((year % 4) == 0^
29                    (year % 100 == 0) ^
                       (year % 100 == 0) ^
30                    (year % 400 == 0))sum+=1;
                       (year % 400 == 0))sum += 1;
31                                     // whether is leap month or not
32         case 2 : sum += 31;
33     }
34     printf("Day of year:%d\n", sum);     // output how many days in this year
35     year-=1;                             // get how many years in past
       year -= 1;                              // get how many years in past
36     sum += year / 4 - year / 100 + year / 400 + year * 365;
37                                     // add up days of past years
38     printf("Total Gregorian Calendar days: %d\n", sum);
39                                     // output sum of days
40
41     switch (sum % 7) {                   //know that 1/1/1 is sunday
       switch (sum % 7) {                   // know that 1/1/1 is sunday
42                                     //and output the day of week
```

1

```
                                                        // and output the day of week
43          case 1 : printf("Day of week: Monday\n");break;
            case 1 : printf("Day of week: Monday\n"); break;
44          case 2 : printf("Day of week: Tuesday\n");break;
            case 2 : printf("Day of week: Tuesday\n"); break;
45          case 3 : printf("Day of week: Wednesday\n");break;
            case 3 : printf("Day of week: Wednesday\n"); break;
46          case 4 : printf("Day of week: Thursday\n");break;
            case 4 : printf("Day of week: Thursday\n"); break;
47          case 5 : printf("Day of week: Friday\n");break;
            case 5 : printf("Day of week: Friday\n"); break;
48          case 6 : printf("Day of week: Saturday\n");break;
            case 6 : printf("Day of week: Saturday\n"); break;
49          case 0 : printf("Day of week: Sunday\n");break;
            case 0 : printf("Day of week: Sunday\n"); break;
50      }
51      return 0;
52 }
```

[Format] can be improved.
[Coding] lab03.c spelling errors: sunday(1)
[Output] should match the example exactly.
[Operator] '^' not covered yet, and should not be used.

Score: 70