

EE231002 Introduction to Programming

Lab03. Day of the Year

Due: Oct. 15, 2020

It is known that January 1st of this year is a Wednesday. With this information one can calculate the following information for any date of this year:

1. Which day of the year is this day?
2. Which week of the year is this day in?
3. What day of the week is this day?

Note that a week starts on a Sunday and ends on a Saturday.

Your assignment is to write a **C** program to read a date (month/day) and then print out those three information. Example program outputs are as the following.

```
$ ./a.out
```

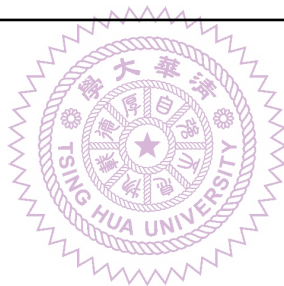
```
Input a date (m/d): 2/2
```

```
It is day 33 of the year,  
in the week 6 of the year,  
and it is Sunday.
```

```
$ ./a.out
```

```
Input a date (m/d): 10/12
```

```
It is day 286 of the year,  
in the week 42 of the year,  
and it is Monday.
```



Notes.

1. Create a directory **lab03** and use it as the working directory.
2. Name your program source file as **lab03.c**.
3. The first few lines of your program should be comments as the following.

```
// EE231002 Lab03 Day of the Year  
// ID, Name  
// Date:
```

4. After finishing editing your source file, you can execute the following command to compile the program,

```
$ gcc lab03.c
```

If no compilation errors, the executable file, **a.out**, should be generated, and you can execute it by typing

```
$ ./a.out
```

5. Typical inputs and outputs of the program execution have been shown above. But you should try a few more test cases to make sure your program function correctly.

6. After you finish verifying your program, you can submit your source code by

```
$ ~ee2310/bin/submit lab03 lab03.c
```

If you see a "submitted successfully" message, then you are done. In case you want to check which file and at what time you submitted your labs, you can type in the following command:

```
$ ~ee2310/bin/subrec lab03
```

It will show the last few submission records.

