

Lab 3 Introduction to PASS, and Exercises on Operators and Basic I/O

2. Exercises on Operators and Basic I/O

NOTE: In all the following exercises, the input entered by the user is highlighted by underline. It is not part of the output from the program.

Q-4.

Write a program **TimeDiff.cpp** to compute the time difference between the start time and end time (in days, hours, minutes and seconds). The console prompt for data entry and the output display should strictly follow the format of the Expected Output shown below. For simplicity and without loss of generality, let us assume the start time and end time are both within a month of 31 days. Also assume that the end time is always greater than the start time. The program does not have to cope with singulars and plurals in the output (just use "(s)").

Expected Output:

```
For start time, please enter the following information:
Enter the start day (a number in range from 1 to 31): 1
Enter the start hour (a number in range from 0 to 23): 0
Enter the start minute (a number in range from 0 to 59): 0
Enter the start second (a number in range from 0 to 59): 0
For end time, please also enter the similar information:
Enter the end day (a number in range from 1 to 31): 2
Enter the end hour (a number in range from 0 to 23): 3
Enter the end minute (a number in range from 0 to 59): 4
Enter the end second (a number in range from 0 to 59): 5

The time difference is: 1 day(s), 3 hour(s), 4 minute(s), and 5 second(s).
```

Hint: Consider using the modulo operator %.

You should test your program on **PASS**.