**CSC3320 System Level Programming**

**Lab Assignment 10 - (In-Lab)**

Purpose: Learn how to use the pointers in a C function.

The following program **splitTime.c** is used to split a time in seconds into the equivalent time in hours (0-23), minutes (0-59), and seconds (0-59), respectively. But it is incomplete. Please complete the program.

Sample output:

Enterseconds:2345

Converted format 0 hour 39 mins 5 secs

Enter seconds:3601

Converted format 1 hour 0 mins 1 secs

#include<stdio.h>

// Write the declaration of function split\_time

int main(){

int n,hr,min,sec;

printf("Enter seconds:");

scanf("%d",&n);

/\* Write the statement to call split\_time \*/

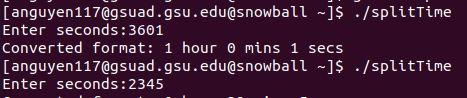
printf("Converted format: %d hour %d mins %d secs", /\* Write the corresponding expressions \*/ );

return 0;

}

void split\_time(long total\_sec, int \*hr, int \*min, int \*sec){ /\* Write the statements to calculate hr, min and sec \*/

}



Source Code (Check C file)

#include<stdio.h>

// Write the declaration of function split\_time

void split\_time(long, int\*, int\*, int\*);

int main(){

int n,hr,min,sec;

printf("Enter seconds:");

scanf("%d",&n);

/\* Write the statement to call split\_time \*/

split\_time(n, &hr, &min, &sec);

printf("Converted format: %d hour %d mins %d secs\n", hr, min, sec );

/\* Write the corresponding expressions \*/

return 0;

}

void split\_time(long total\_sec, int \*hr, int \*min, int \*sec){

/\* Write the statements to calculate hr, min and sec \*/

int leftover\_sec = 0;

\*hr = total\_sec/3600;

leftover\_sec = total\_sec%3600;

\*min = leftover\_sec/60;

\*sec = leftover\_sec%60;

}

***Submssion***:

• Upload the C files **splitTime.c** to the folder named “**Lab 10\_ InLab**” to the google classroom.

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