

Lab 03 - Boolean Problems & Function Definitions

Direction: Submit your typed work(s) as an upload(s) to the Labs directory of your GitHub repository or Dropbox, or in your correct Lab03 google classroom assignment. Each part should be a separate files. The files named should be "lab3A.txt" and "lab3B.cpp" respectively.

Part A: In class

Your objective is to write the boolean expressions that are described below. Assume that the variables in the descriptions are already initialized.

- ☐ Write an expression that determines if two numbers, *s* and *t*, have the same sign.
- ☐ Write an expression that determines if an integer, *n*, is a negative three digit number.
- ☐ Write an expression that determines if a day, *dy*, fell on a Wednesday in the month of October 2020 (the first Wednesday is on the 7th).
- ☐ Write an expression that determines if a string, *wd*, equals "hi" ignoring case.

Part B: Take home

Your objective is to write a complete cpp program that defines the following functions and calls them in the main function.

- ☐ An int function named `ProductOfFive()` that takes an int parameter named *n*. It returns the product of five consecutive integer starting from *n*.
- ☐ A void function named `Swap()` that takes three char reference parameters named *s*, *t* and *u* respectively. It swaps the values of the parameters so that no parameter is equal to its original value, but all values are maintained. You can assume that the values of the parameters are distinct.
- ☐ A string function named `CapitalI()` that takes no parameters. It returns a string equal to

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