

**RYERSON UNIVERSITY**  
**DEPARTMENT OF COMPUTER SCIENCE**  
**CPS310 – COMPUTER ORGANIZATION II**  
**Winter 2013**  
***Lab #5***

**Binary Search**

**[5 Marks]**

This Lab is a continuation of Lab #4.

Write the following M68000 programs:

- 1- A program that reads a number from keyboard and search for that given a sorted file. If the number is found in the file then the program outputs “Found” otherwise “Not Found”.
- 2- Extend the program by writing a subroutine called “search” to perform the same task in part 1 where the search value and the address of the file are passed via user stack.

**Preparation:**

Submit a Hand-Written copy of either part 1 or 2 of your program to your TA during the first 10 minutes of the lab. Fill and attach the cover letter that follows this document to your prep.

**Demonstration:**

***During the lab:*** run the program and provide answers to TAs’ questions about your program.

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**First Name:** \_\_\_\_\_ **Last Name:** \_\_\_\_\_

**Student #:** \_\_\_\_\_

**Section #:** \_\_\_\_\_ **Lab Room #:** \_\_\_\_\_

**Signature:** \_\_\_\_\_ **Date:** \_\_\_\_\_