

UW COSC 2030 Spring 2019

Lab 07: Bit-Array Operations

Due April 8th at the end of your Lab session

Background

By the end of this lab, you will have a code repository in your files that contains the following deliverables:

- README.md
- your-name_HelpSheet.txt
- bit_array.cpp

Preparation

1. Download the files from GitHub or WyoCourses for today's lab in the Lab07 folder.
2. Study the implementation of the bit array.

Tasks

1. Examine, compile, and execute the code.
2. Change the amount of elements to insert into the array to be taken by user input.
3. Implement functions to execute the Union and Difference operations on the sets.
4. Create a add_elements_list to this time create lists that allow multiple elements with the same value
5. Create a function to print the newly created lists.
6. Add to your HelpSheet: What is the drawback for the great speed of this type of data structure?
7. Add to your README file: Name some of the sorting algorithms you have studied and give their WORST CASE time complexity.

End of Lab 07