

## CS2028C Lab 9

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### Overview

The objective of this lab was to build and use a binary tree. This is important because different data structures give different advantages. Binary trees allow us to find an element quickly. This could be very important if we're processing a very large file with many words.

### Compiling

This program was compiled using the MinGW g++ compiler version 6.3.0 on Windows 10. It can also be compiled using the tdm compiler version 5.1.0. Download the source files, open a command prompt or terminal in the directory containing the source files. Compile the program by typing "g++ main.cpp WordCount.cpp input.cpp -std=c++17".

```
C:\Users\Nick\Documents\College_Classes\ds\git\lab9 (master -> origin)
λ dir *.cpp *.h
Volume in drive C is Windows
Volume Serial Number is 904D-9734

Directory of C:\Users\Nick\Documents\College_Classes\ds\git\lab9

04/02/2019  03:22 PM                1,556 input.cpp
04/02/2019  04:34 PM                3,579 main.cpp
04/02/2019  04:09 PM                 754 WordCount.cpp

Directory of C:\Users\Nick\Documents\College_Classes\ds\git\lab9

04/02/2019  04:41 PM                8,568 BinaryTree.h
04/02/2019  03:22 PM                 168 input.h
04/02/2019  03:59 PM                2,873 Node.h
04/02/2019  01:34 PM                449 WordCount.h
               7 File(s)              17,947 bytes
               0 Dir(s) 86,857,539,584 bytes free

C:\Users\Nick\Documents\College_Classes\ds\git\lab9 (master -> origin)
λ g++ main.cpp WordCount.cpp input.cpp -std=c++17

C:\Users\Nick\Documents\College_Classes\ds\git\lab9 (master -> origin)
λ |
```