

CS2413: Data Structure
Fall 2021

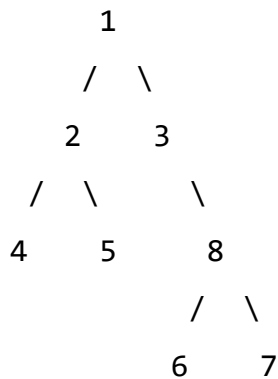
Lab Assignment #9

- Release date: Oct 28th, 2021 (Thursday)
- Due date: Oct 30th, 2021 (Saturday) 11:59 PM
- It should be done INDIVIDUALLY.
- Please turn in your codes through Blackboard in **one file in .cpp format**. Do **NOT** compress/zip your submission. This is to ensure faster grading.
- Please name your submission file starting with “LastName_FirstName_Lab09”
- Total: 20 pts

Problem:

Given a binary tree, write a function to get the maximum width of the given tree.
Width of a tree is maximum of widths of all levels.

Let us consider the below example tree



For the above tree,
width of level 1 is 1,
width of level 2 is 2,
width of level 3 is 3
width of level 4 is 2.
So the maximum width of the tree is 3.