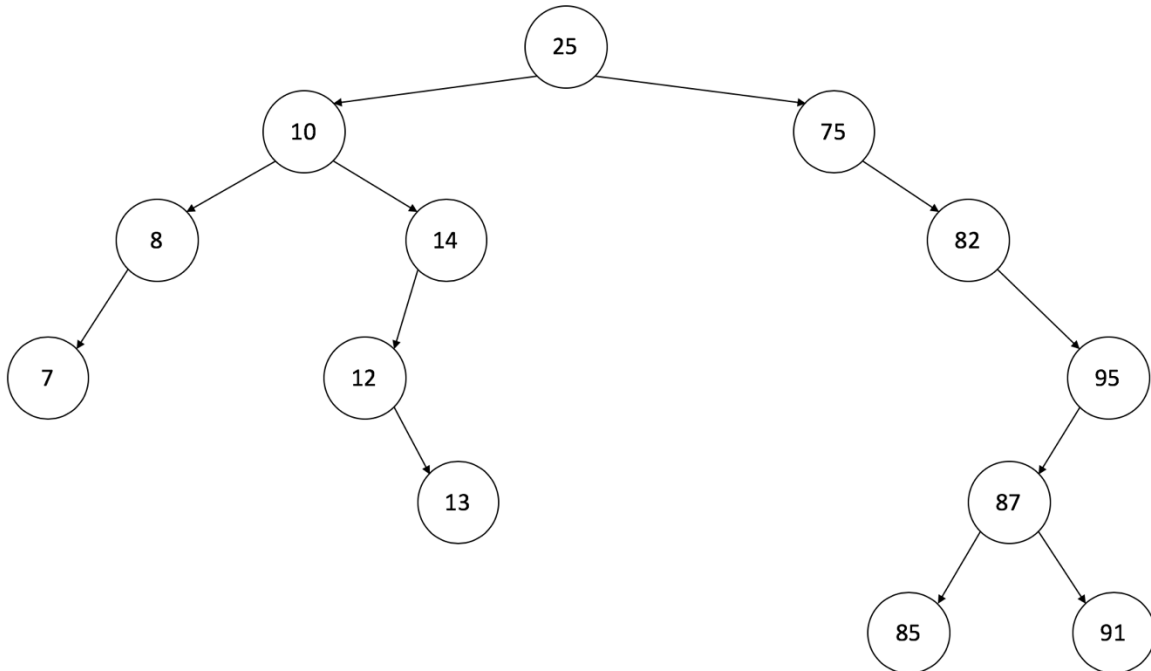


Northeastern Illinois University
CS303A, Object-Oriented Programming and Data Structures
Homework: Binary Search Trees

Print each sheet, complete the work by hand, scan all the sheets as .pdf files and submit it as a .zip file to D2L.

Problem 1:

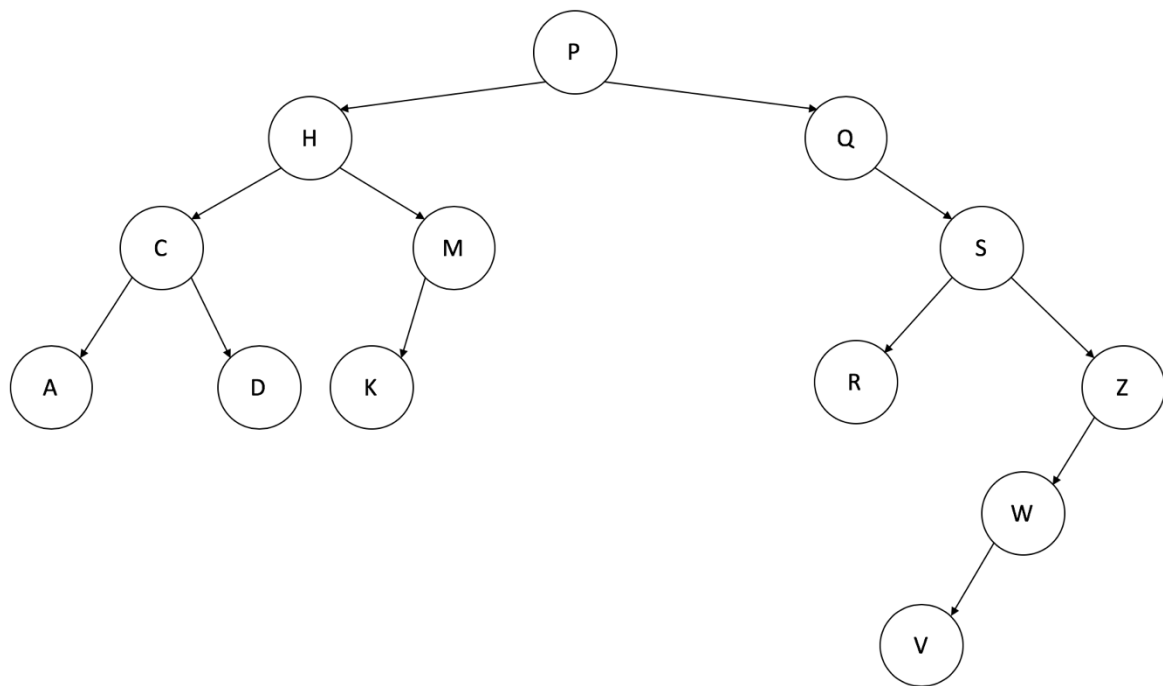
For each of the following Binary Search Trees, Show the result of traversing the tree using Pre Order, In Order and Post Order:



Pre Order:

In Order:

Post Order:



Pre Order:

In Order:

Post Order:

Problem 2:

Given the list of values below, create a Binary Search Tree for the list, Use the first value in the list as the root of the tree, add the nodes to BST in the order they appear in the list.

[50, 44, 82, 39, 35, 98, 87, 100, 74, 23, 34, 14, 94]

General Instructions:

- No hard copies will be collected.
- Do not send your files through the email!
- You should submit your work by the due date, **No** extensions will be given. (See syllabus for late homework policy).
- **DO NOT** turn in multiple files, only one .zip file.

What to turn in:

Print each sheet, complete the work by hand, scan all the sheets as .pdf files. put all those files into a zip file and name it <YourFirstName_YourLastName>.zip, submit the zip file into the Dropbox on D2L.

How to zip multiple files?

On Windows: Select all the files > right click > Send to > Compressed File

On Mac: Select all the files > Click/Tap with two fingers > Compress Items