**Majority already in notes.**

Write an algorithm for a 0(log2n) search

Write an algorithm for a n^2 sort

Bubble sort

Describe a binary tree

They have two children

Describe a binary search tree

Sorted

The left child must be smaller than the right one

In order, post order, pre order

Track height, depth

Track two pointers to the children

Given a (small) BST show the results of the three standard traversals

Describe an ADT list – all of the parts

Avoiding implementation

Collection of data

Describe a linked list

A collection of nodes that point to each other

Define stack and queue

Explain recursion

A function that calls itself

Method of solving a problem where the solution depends on solutions to smaller instances of the same problem.

Be able to algorithmically define the base and general cases of a problem to be solved recursively

Explain the purpose of try/catch code

Debugging