# Week 9: Exam Review

Here is a potential programming problem you might receive on the exam:

Please implement a binary search tree that supports insertion of integers, and can print its representation in prefix, infix, and postfix notation.

I’ll go over how a binary search tree works at the meeting. Here is a skeleton for your code:

class BinarySearchTree {

private:

public:

BinarySearchTree();

void insert( int value );

void printPrefix();

void printPostfix();

void printInfix();

};

You may define other classes, functions, and private member variables. Efficiency does not matter.

Sample input:

insert 5

insert 7

insert 3

insert 10

insert 6

insert 4

insert 2

print prefix

print postfix

print infix

Sample output:

5 3 2 4 7 6 10

2 4 3 6 10 7 5

2 3 4 5 6 7 10