

## 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 positive 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
```