## <u>Question</u> Explain what the following does, and find the time complexity:

```
void findWhatIDo(BST *r1, BST *r2)
{
    if ( (r2 == NULL) || (r1 == NULL) ) return;
    int h1 = GetHeight(r1->root);
    int h2 = GetHeight(r2->root);
    BST *bn1 = h1 > h2 ? r1 : r2 ;
    BST *bn2 = (bn1 == r1) ? r2 : r1;
    BST_Node *tmp = bn2->root;
    while(!bn2->IsEmpty())
    {
    tmp = bn2->ExtractRoot();
    bn1->Insert(tmp);
    }
}
```

Reminder about syntax of ternary operator: (condition)?(statement to execute if true):statement to execute if false);

Microsoft Interview Question for Software Engineer / Developers. (n.d.).

Hint: Inserting a node in a binary search tree with n nodes has the same run time complexity as a binary search over n nodes