

Pseudocode for the iterative add method:

Create a new node with v as its value

If the tree is empty

 Set the root to the new node

 Increment the size

 Return

End if

Set up a current node and initialize it to the root

Set up a parent node and initialize it to null

While current is not null

 If $v = \text{current node's value}$

 Return

 End if

 Set parent to the current node

 If $v < \text{current node's value}$

 Go to current node's left child

 Else

 Go to current node's right child

 End if

End while

If $v < \text{parent node's value}$

 Insert the new node as the left child of the parent node

Else

 Insert the new node as the right child of the parent node

End if

Increment the size

Pseudocode for the iterative **inOrder** method:

If the tree is empty

 Return

End if

Set up a BSTNode stack

Set up a current node and initialize it to the root

While (true)

 If current node is not null

 Push the current node onto the stack

 Set current node to its left child

 Else

 If the stack is empty

 Break

 End if

 Set current node to the top of the stack

 Pop the stack

 Print the value of the current node

 Set current node to its right child

 End if

End while