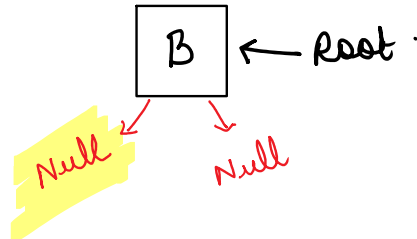


## Insert a value into BST

Step #1. First value is Assigned as the ROOT node



Step #2. Find the position where the Node has to be inserted

a. Node = ROOT

```

Visit(Node)
{
  If(Data(Node) < ValueToBeInserted)
  {
    // Value will be present in the right Side of the Current Node
    Visit(Node->rightChild)
  }
  else
  {
    // Value will be present in the left Side of the Current Node
    Visit(Node->leftChild)
  }
}
  
```

If Node visited is NULL, Then create a newNode, update the value and give the address of newNode to its parent Node.

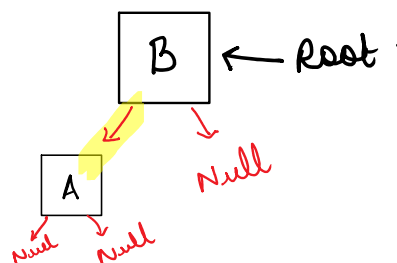
Input order  
Input  $\Rightarrow$  B, A, D, C, E

Order affects the structure

A  
A is smaller than B  
present on left of B

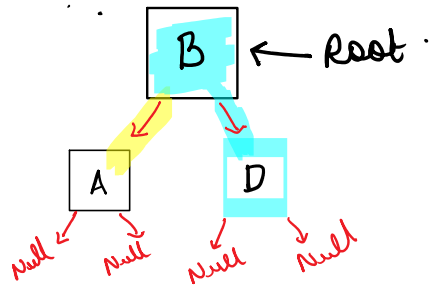
D  
D is greater than B  
present on right side of B

Insert (A)



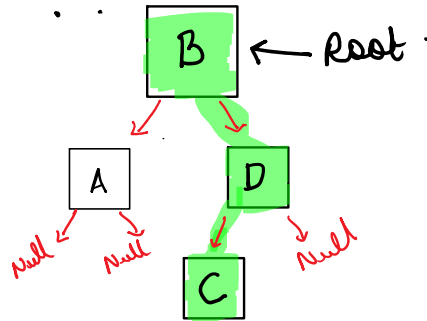
Value < Data(Node)  
check left side

Insert (D)



• Insert (C)

Value ~ C



• Insert (E)

Value ~ E

