

Problem Statement:

Write a Python program to check if a binary tree is BST or not.

```
INT_MAX=4294967296
```

```
INT_MIN=-4294967296
```

```
class Node:
```

```
    def __init__(self,data):
```

```
        self.data=data
```

```
        self.left=None
```

```
        self.right=None
```

```
def isBST(node):
```

```
    return (isBSTUtil(node,INT_MIN,INT_MAX))
```

```
def isBSTUtil(node,mini,maxi):
```

```
    if node is None:
```

```
        return True
```

```
    if node.data<mini or node.data>maxi:
```

```
        return False
```

```
    return (isBSTUtil(node.left,mini,node.data-1) and  
isBSTUtil(node.right,node.data+1,maxi))
```

```
root=Node(4)
```

```
root.left=Node(2)
```

```
root.right=Node(5)
```

```
root.left.left=Node(1)
```

```
root.left.right=Node(3)
```

```
if(isBST(root)):
```

```
    print("Is BST")
```

```
else:
```

```
    print("Not a BST")
```

OUTPUT:

Is BST