① Advanced Data Structure
Batch - 5
Program - 4

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14/10/20

Insertion :-

```
int insert (node * head, int val)
{
    if (head == NULL)
        return newnode (val)
    if (head → val > val)
        head → left = head insert ( head → left, val)
    else if (head → val < val)
        head → right = insert ( head → right, val)
    else
        return node

    int bf = height (head → left) - height (head → right)

    if (balance > 1)
    {
        if ( head → left → key > val)
            left left rotate
        else
            left right rotate
    }
    else if ( balance < - 1)
    {
        if (head → right → key > val)
            right left rotate
        else
            right right rotate.
    }
    else
        return node.
}
```

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