

# Ex. 07 Submission

Name: Pavithra Rajan

Roll Number: B190632CS

---

## Insertion of 15 elements and displaying the tree

```
pavithra@pavithra-VirtualBox:~/Desktop$ g++ bp.cpp
pavithra@pavithra-VirtualBox:~/Desktop$ ./a.out
i:Insert a value
p:Print the tree
d>Delete a value
s:Search for a value
e:Exit
i 1
Inserted 1
i 2
Inserted 2
i 3
Inserted 3
i 4
Inserted 4
i 5
Inserted 5
i 6
Inserted 6
i 7
Inserted 7
i 8
Inserted 8
i 9
Inserted 9
i 10
Inserted 10
i 11
Inserted 11
i 12
Inserted 12
i 13
Inserted 13
i 14
Inserted 14
i 15
Inserted 15
p
[|7|]
[|3|5|] [|9|11|13|]
[|1|2|] [|3|4|] [|5|6|] [|7|8|] [|9|10|] [|11|12|] [|13|14|15|]
```

---

---

### Deletion of an existing element from the tree

```
p
[|7|]
[|3|5|] [|9|11|13|]
[|1|2|] [|3|4|] [|5|6|] [|7|8|] [|9|10|] [|11|12|] [|13|14|15|]
d 7
Deleted 7
p
[|5|]
[|3|] [|8|11|13|]
[|1|2|] [|3|4|] [|5|6|] [|8|9|10|] [|11|12|] [|13|14|15|]
```

### Deletion of a non-existing element from the tree

```
d 20
ERROR
█
```

### Search for an existing element

```
s 5
Exists at level 2
s 14
Exists at level 2
```

### Search for a non-existing element

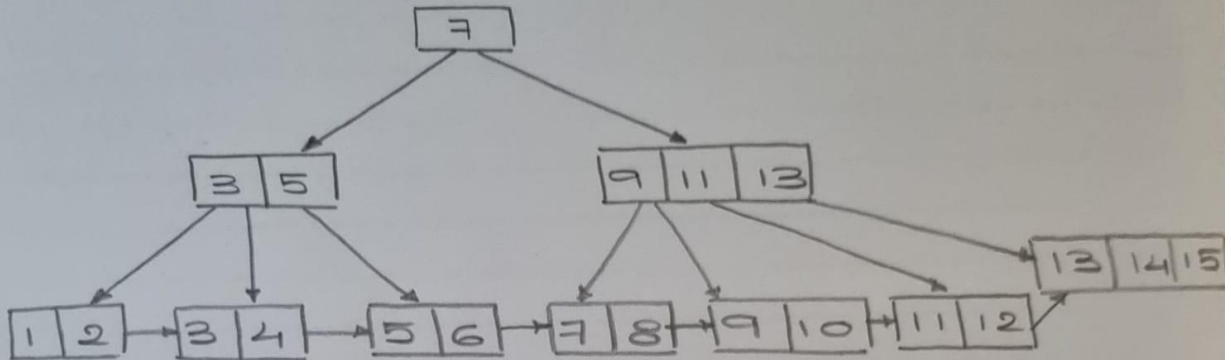
```
s 32
FALSE
█
```

## Pictorial representation

DBMS Laboratory - Ex.07

Pavithra Rajan  
B190632 CS

1) Insert 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15



2) Delete 7

[left element chosen to redistribute].

