



STAFF SELECTION COMMISSION

REGISTRATION NUMBER : 30006627511

BASIC DETAILS

1a. AADHAAR NUMBER	346131843280
1b. TYPE OF ID	-
1c. ID NUMBER	
2a. NAME	MANSI VERMA
2c. HAVE YOU EVER CHANGED NAME?	NO
2d. NEW NAME	-
3a. FATHER'S NAME	SATISH KUMAR
4a. MOTHER'S NAME	GUDDI DEVI
5a. DATE OF BIRTH (DD/MM/YYYY)	10/03/2003
6. MATRICULATION (10TH CLASS) EXAMINATION DETAILS :	
(i). EDUCATION BOARD	BOARD OF HIGH SCHOOL AND INTERMEDIATE EDUCATION UTTAR PRADESH
(ii). ROLL NUMBER	0960246
(iii). YEAR OF PASSING	2019
7a. GENDER	FEMALE
8. LEVEL OF EDUCATIONAL QUALIFICATION	HIGHER SECONDARY (10+2)
9. MOBILE NUMBER	8858931470
10. EMAIL ID	mansivermaaa.0@gmail.com

ADDITIONAL DETAILS

11a. CATEGORY	OBC
12. NATIONALITY	CITIZEN OF INDIA
13. IDENTIFICATION MARKS	BLACK SPOT ON NOSE IN RIGHT SIDE
14a. ARE YOU A PERSON WITH DISABILITY? (40% OR MORE)?	NO
14b. TYPE OF DISABILITY	-
14c. DISABILITY CERTIFICATE NUMBER	-

CONTACT DETAILS

15a. PERMANENT ADDRESS	VILL- WILLIYAM GANJ JALALPUR KHERI
15b. STATE/ UT	UTTAR PRADESH

15c. DISTRICT	LAKHIMPUR KHERI
15d. PIN CODE	262802
16. IS PERMANENT ADDRESS SAME AS PRESENT ADDRESS?	YES
17a. PRESENT ADDRESS	VILL- WILLIYAM GANJ JALALPUR KHERI
17b. STATE/ UT	UTTAR PRADESH
17c. DISTRICT	LAKHIMPUR KHERI
17d. PIN CODE	262802
18. CONTACT DETAILS FOR OTHER NATIONALS	-

NOTE
THIS IS A DRAFT VIEW OF YOUR REGISTRATION.REGISTRATION PROCESS IS NOT YET COMPLETE.YOU NEED TO DO '**FINAL SUBMIT**' WITHIN 14 (FOURTEEN) DAYS OF GENERATION OF YOUR REGISTRATION NUMBER, FAILING WHICH, YOUR REGISTRATION DATA WILL GET DELETED AUTOMATICALLY.

```
class TreeNode {  
    int data;  
    node* left;  
    node* right;  
}
```

```
Node {  
    int data;  
    Vector<node*> child;  
}
```

Terms:-

1. node
2. root
3. parent
4. child
5. sibling
6. ancestor
7. descendant
8. leaf

→ Game

Online test

↳ MCQs → formula based questions
↳ Question → 80-90%.

- classical Ques. are mostly required.
- * * • Duplicate Binary Tree (string se bhi solve krsktte ho)

Tree Implementation:-

```
class Node {
```

```
    public:
```

```
    int data;
```

```
    Node* left;
```

```
    Node* right;
```

```
    Node(int data){
```

```
        this->data = data;
```

```
        left = NULL;
```

```
        right = NULL;
```

```
    }
```

```
};
```

```
Node* buildTree(int data){
```

```
    if (data == -1){
```

```
        return NULL; // Base case
```

```
    }
```

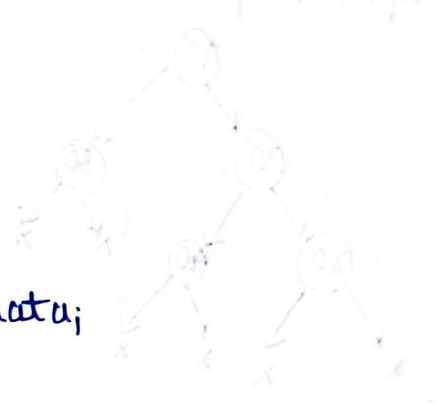
```
    Node* root = new Node(data); // 1st case.
```

```
    int leftData;
```

```
    cout << "Enter data for left child of " << data << endl;
```

```
    cin >> leftData;
```

```
    root->left = buildTree(leftData);
```



```
int rightData;
```

```
cin >> rightData;
```

```
root->left = buildTree(rightData);
```

```
return root;
```

```
int main() {
```

```
Node* root;
```

```
int data;
```

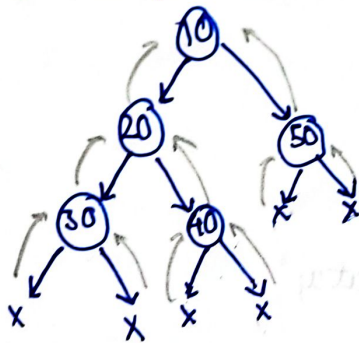
```
cin >> data;
```

```
root = buildTree(data);
```

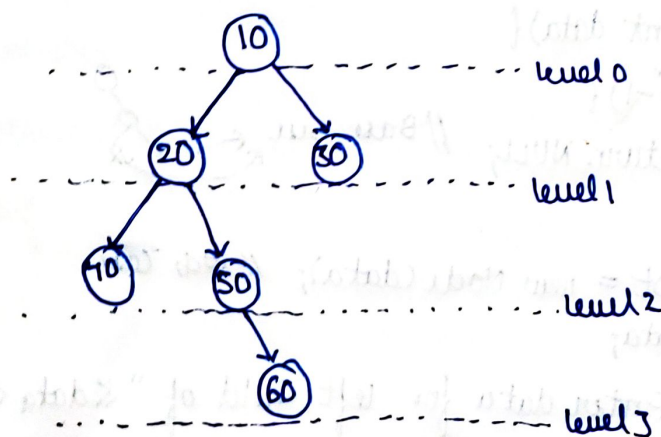
```
return 0;
```

```
}
```

Same upar 10 put krdo



• Level Order Traversal:-



10, 20, 30, 40, 50, 60

With help of queue:-

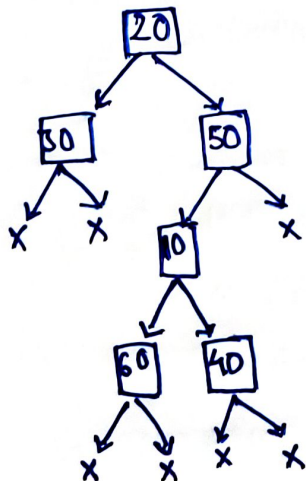

```

void levelOrderTraversal (Node* root){
    if (root == NULL)
        return;
    queue<Node*> q;
    q.push(root);
    while (!q.empty()){
        Node* temp = q.front();
        q.pop();
        cout << temp->data << " ";
        if (temp->left){
            q.push(temp->left);
        }
        if (temp->right){
            q.push(temp->right);
        }
    }
}

```

i/p 20, 30, -1, -1, 50, 10, 60, -1, -1, 40, -1, -1, -1

o/p 20, 30, 50, 10, 60, 40



temp = q.front



NULL

↳ end point

↳ new NULL insert

!NULL

↳ print

→ left

→ right

→ insert