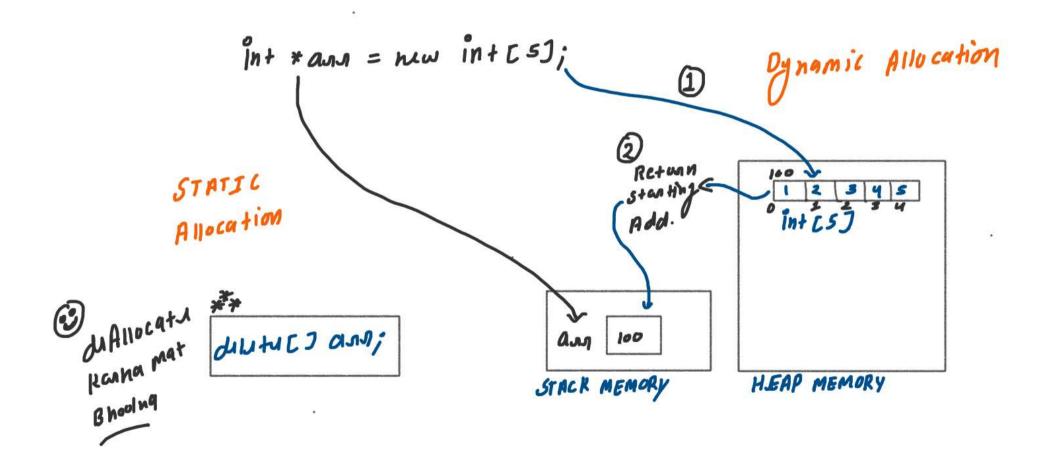


# DYNAMIC MEMORY ALLOCATION



## Example 1:

### TREE INPUT

Enter root data: 10

Enter Children count for 10 node: 2

Enter root data: 11

Enter Children count for 11 node: 0

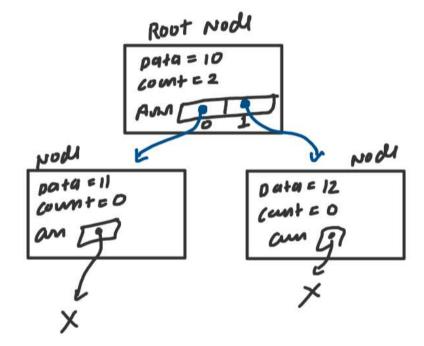
Enter root data: 12

Enter Children count for 12 node: 0

### TREE OUTPUT

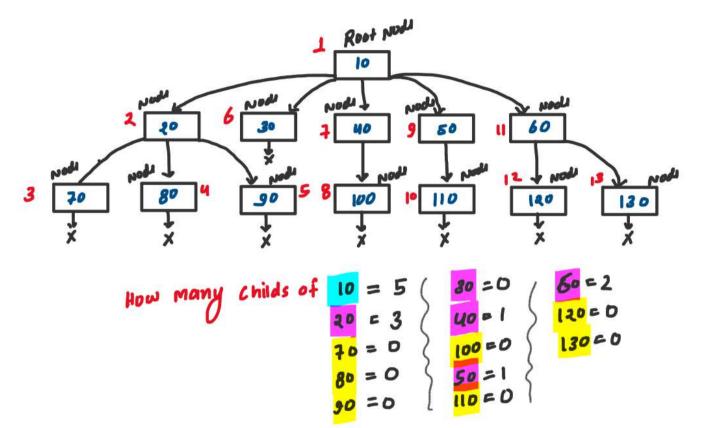
10

11 12



#### Example 2:

#### TREE INPUT Enter root data: 10 Enter Children count for 10 node: 5 Enter root data: 20 Enter Children count for 20 node: 3 Enter root data: 70 Enter Children count for 70 node: 0 Enter root data: 80 Enter Children count for 80 node: 0 Enter root data: 90 Enter Children count for 90 node: 0 Enter root data: 30 Enter Children count for 30 node: 0 Enter root data: 40 Enter Children count for 40 node: 1 Enter root data: 100 Enter Children count for 100 node: 0 Enter root data: 50 Enter Children count for 50 node: 1 Enter root data: 110 Enter Children count for 110 node: 0 Enter root data: 60 Enter Children count for 60 node: 2 Enter root data: 120 Enter Children count for 120 node: 0 Enter root data: 130 Enter Children count for 130 node: 0 TREE OUTPUT 10 20 30 40 50 60 70 80 90 100 110 120 130



```
...
#include <iostream>
#include<queue>
using namespace std;
class Node{
    int data;
    int children_count;
   Node** children:
   Node(int value) {
       this->children count = 0;
       this->children = NULL:
   cout<<"Enter root data: ";
   cout<<"Enter Children count for "<<data<<" node: ";
   Node* root = new Node(data);
   root->children = new Node[count];
       root->children[i] = takeInput();
int main() {
```

```
. .
#include <iostream>
#include<queue>
using namespace std;
class Node{
Node* takeInput(){
void levelOrderPrint(Node* root){
    queue<Node*> q;
        q.pop();
if(front == NULL){
            if(!q.empty()){
                q.push(NULL);
                    q.push(front->children[i]);
 int main() {
```