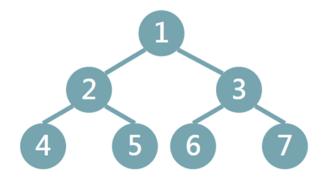
- ❖ 建一棵樹
- ❖ 印出中序、前序、後序結果

中序:4251637

前序:1245367

後序:4526731





```
❖ 建—棵樹
    void insertTree (treePtr ptr, int value, char lr)
       treePtr newNode = (treePtr) malloc (sizeof(treePtr));
       newNode -> data = value;
        newNode -> leftLink = NULL;
        newNode -> rightLink = NULL;
       if (lr == 'L') {
           ptr -> leftLink = newNode;
        } else if (lr == 'R') {
           ptr -> rightLink = newNode;
```



❖ 建一棵樹

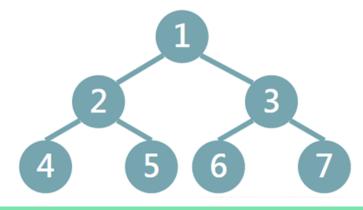
```
insertTree (temp, 2, 'L'); insertTree (temp, 3, 'R');
temp = temp -> leftLink;
insertTree (temp, 4, 'L'); insertTree (temp, 5, 'R');
temp = root -> rightLink;
insertTree (temp, 6, 'L'); insertTree (temp, 7, 'R');

1
2
3
7
```

❖ 印出中序

```
void inorderTree (treePtr ptr)
{
    if (ptr) {
        inorderTree (ptr -> leftLink);
        printf("%d", ptr -> data);
        inorderTree (ptr -> rightLink);
    }
}
```

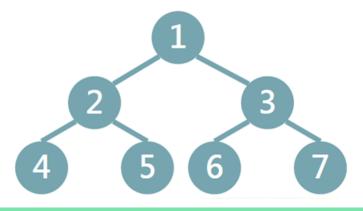
中序:4251637



❖ 印出前序

```
void preorderTree (treePtr ptr)
{
    if (ptr) {
        printf("%d", ptr -> data);
        preorderTree (ptr -> leftLink);
        preorderTree (ptr -> rightLink);
    }
}
```

前序:1245367



❖ 印出後序

```
void postorderTree (treePtr ptr)
{
    if (ptr) {
        postorderTree (ptr -> leftLink);
        postorderTree (ptr -> rightLink);
        printf("%d", ptr -> data);
    }
}
```

後序:4526731

