```
#include<stdio.h>
#include<stdib.h>
#include<stdib.h>
#include<stdib.h>
#include<stdip.h>

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#include<stdi
```

```
31 int i;
32 temp=getnode();
...fo item
                          int i;
 temp=getnode();
temp->info=item;
temp->llink=NULL;
temp->rlink=NULL;
f(root==NULL)
return temp;
return temp;
seanf("give direction to insert\n");
prev=NULL;
return temp;
retu
 41 cur=root;
42 for(i=0;i<strlen(direction)&&cur!=NULL;i++)
43 × {
44 prev=cur;
45 if(direction[i]=='1')
  46 cur=cur->llink;
  48 cur=cur->rlink;
 49 }
50 if(cur!=NULL||i!=strlen(direction))
  51 - {
                                                  ntf("insertion not possible\n");
  freenode(temp);
freeturn(root);
                            if(cur==NULL)
  57 {
58 if(direction[i-1]=='1')
  59 prev->llink=temp;
 61 prev->rlink=temp;
```

```
previous previou
```

```
155 }
156 break;
157 case 5:display(root,1);
158 break;
159 default:exit(0);
160 }
161 }
162 }
```

```
1.insert
2.preorder
3.inorder
4.postorder
5.display
enter the choice
enter the item
1.insert
2.preorder
3.inorder
4.postorder
5.display
enter the choice
enter the item
give direction to insert
1.insert
2.preorder
3.inorder
4.postorder
5.display
enter the choice
enter the item
give direction to insert
```

```
give direction to insert

r
1.insert
2.preorder
3.inorder
4.postorder
5.display
enter the choice
1
enter the item
4
give direction to insert
lr
1.insert
2.preorder
3.inorder
4.postorder
5.display
enter the choice
1
enter the item
5
give direction to insert
rl
1.insert
2.preorder
3.inorder
4.postorder
5.display
enter the choice
1
enter the item
5
give direction to insert
rl
1.insert
2.preorder
3.inorder
4.postorder
5.display
enter the choice
```

```
1.insert
2.preorder
3.inorder
4.postorder
5.display
enter the choice
given tree is
         6
the preorder traversal is the item is 1
the item is 2
the item is 4
the item is 6
the item is 3
the item is 5
the item is 7
1.insert
2.preorder
3.inorder
4.postorder
5.display
enter the choice
given tree is
```

```
enter the item

give direction to insert

lrl

l.insert

2.preorder

3.inorder

4.postorder

for direction to insert

rr

give direction to insert

rr

1.insert

2.preorder

3.inorder

4.postorder

5.display

enter the choice

1

4.postorder

5.display

enter the choice

5

1

4

6

2

1.insert
```

```
given tree is

3

7

5

1

4

6

2
the inorder traversal is the item is2
the item is4
the item is4
the item is1
the item is5
the item is7
the item is7
the item is3
1.insert
2.preorder
3.inorder
4.postorder
5.display
enter the choice
4

given tree is

3

7

5

1

4

6
```

```
4.postorder
5.display
enter the choice
4
given tree is
3
7
5
1
4
6
2
the postorder traversal is
the item is6
the item is4
the item is7
the item is7
the item is5
the item is5
the item is1
1.insert
2.preorder
3.inorder
4.postorder
5.display
enter the choice
6
...Program finished with exit code 0
Press ENTER to exit console.
```