## Assignment9

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#### 一、 作业题目

## 1、04081: 树的转换(1h30min)

http://cs101.openjudge.cn/dsapre/04081/

```
def tree_heights(s):
    old height = 0
    \max \text{ old } = 0
    new height = 0
    max new = 0
    stack = []
    for c in s:
        if c == 'd':
            old height += 1
            max old = max(max old, old height)
            new_height += 1
            stack.append(new height)
            max_new = max(max_new, new_height)
        else:
            old height -= 1
            new height = stack[-1]
            stack.pop()
    return f"{max old} => {max new}"
s = input().strip()
print(tree heights(s))
```



print(postorder(tree))



# 3、22067: 快速堆猪 (2h40min)

preorder = input().strip()

def postorder(tree):
 if tree is None:
 return ''
 root, left, right = tree

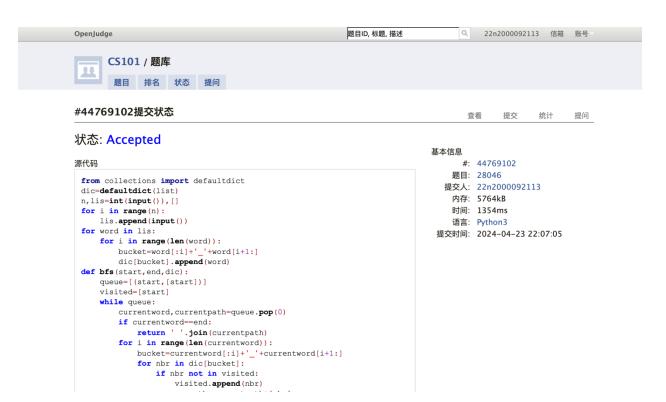
return inorder(left) + root + inorder(right)

return postorder(left) + postorder(right) + root

```
http://cs101.openjudge.cn/practice/22067/
pig, pigmin = [], []
while True:
    try:
        *line, = input().split()
        if "pop" in line:
            if len(pig) == 0:
                continue
            val = pig.pop()
            if len(pigmin) > 0 and val == pigmin[-1]:
                pigmin.pop()
        elif "push" in line:
            val = int(line[1])
            pig.append(val)
            if len(pigmin) == 0 or val <= pigmin[-1]:</pre>
                pigmin.append(val)
        elif "min" in line:
            if len(piq) == 0:
                continue
            else:
                print(pigmin[-1])
    except EOFError:
        break
```



print(bfs(start,end,dic))



### 二、 学习的收获与感受

作业难度越来越大了, 好难啊