

04081:树的转换

```
def cs04081():  
    ipt = input()  
    h1, h2 = 0, 0  
    d1, d2 = 0, 0  
    flag = 0  
    k = "d"  
    for i in ipt:  
        if i == "d":  
            d1 += 1  
        else:  
            d1 -= 1  
            h1 = max(h1, d1)  
            dct = {i + 1: [] for i in range(h1)}  
            for i in ipt:  
                if i == "d":  
                    if k == "d":  
                        flag += 1  
                        d2 += 1  
                        dct[flag].append(d2)  
                    else:  
                        d2 += 1
```

```
dct[flag].append(d2)
```

```
else:
```

```
if k == "u":
```

```
d2 -= len(dct[flag])
```

```
flag -= 1
```

```
h2 = max(h2, d2)
```

```
k = i
```

```
print(h1, "=>", h2)
```

#44672024提交状态

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状态: Accepted

源代码

```
def cs04081():
    ipt = input()
    h1, h2 = 0, 0
    d1, d2 = 0, 0
    flag = 0
    k = "d"
    for i in ipt:
        if i == "d":
            d1 += 1
        else:
            d1 -= 1
    h1 = max(h1, d1)
    dct = {i + 1: [] for i in range(h1)}
    for i in ipt:
        if i == "d":
            if k == "d":
                flag += 1
                d2 += 1
                dct[flag].append(d2)
            else:
                d2 += 1
                dct[flag].append(d2)
        else:
            if k == "u":
                d2 -= len(dct[flag])
                flag -= 1
    h2 = max(h2, d2)
    k = i

    print(h1, "=>", h2)
```

基本信息

#: 44672024
题目: 04081
提交人: 22n2200011358
内存: 3656kB
时间: 29ms
语言: Python3
提交时间: 2024-04-16 11:46:13

08581:扩展二叉树

```
def cs08581():
```

```
    ipt = input()
```

```
lst = []
```

```
ans1, ans2 = "", [""]
```

```
ipt1 = ""
```

```
for i in ipt:
```

```
    if lst and lst[-1] == ".":
```

```
        lst.pop()
```

```
        ans1 += lst.pop()
```

```
        lst.append(i)
```

```
    if i != ".":
```

```
        ipt1 += i
```

```
print(ans1)
```

```
def getp(ipt_, ans):
```

```
    tmp = ans.split(ipt_[0])
```

```
    ans2[0] = ipt_[0] + ans2[0]
```

```
    d = len(ipt_) - len(tmp[1])
```

```
    if tmp[1] != "":
```

```
        getp(ipt_[d:], tmp[1])
```

```
    if tmp[0] != "":
```

```
        getp(ipt_[1:d], tmp[0])
```

```
getp(ipt1, ans1)
```

```
print(ans2[0])
```

#44674715提交状态

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状态: **Accepted**

源代码

```
def cs08581():
    ipt = input()
    lst = []
    ans1, ans2 = "", ""
    ipt1 = ""
    for i in ipt:
        if lst and lst[-1] == ".":
            lst.pop()
            ans1 += lst.pop()
            lst.append(i)
        elif i != ".":
            ipt1 += i
    print(ans1)

    def getp(ipt_, ans):
        tmp = ans.split(ipt_[0])
        ans2[0] = ipt_[0] + ans2[0]
        d = len(ipt_) - len(tmp[1])
        if tmp[1] != "":
            getp(ipt_[d:], tmp[1])
        if tmp[0] != "":
            getp(ipt_[1:d], tmp[0])

    getp(ipt1, ans1)
    print(ans2[0])
cs08581()
```

基本信息

#: 44674715

题目: 08581

提交人: 22n2200011358

内存: 3616kB

时间: 25ms

语言: Python3

提交时间: 2024-04-16 17:04:52

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22067:快速堆猪

```
def cs22067():
```

```
    try:
```

```
        lst, mn, k, ans = [], {}, set(), 20001
```

```
        while True:
```

```
            ipt = input().split()
```

```
            if ipt[0] == "push":
```

```
                w = int(ipt[1])
```

```
                lst.append(w)
```

```
            if w in k:
```

```
                mn[w] += 1
```

```
else:
```

```
    ans = min(ans, w)
```

```
    mn[w] = 1
```

```
    k.add(w)
```

```
elif lst:
```

```
    if ipt[0] == "pop":
```

```
        d = lst.pop()
```

```
        mn[d] -= 1
```

```
        if not mn[d]:
```

```
            k.remove(d)
```

```
            if ans == d:
```

```
                ans = min(k)
```

```
    else:
```

```
        print(ans)
```

```
except:
```

```
    pass
```

状态: Accepted

源代码

```
def cs08581():
    try:
        lst, mn, k, ans = [], {}, set(), 20001
        while True:
            ipt = input().split()
            if ipt[0] == "push":
                w = int(ipt[1])
                lst.append(w)
                if w in k:
                    mn[w] += 1
                else:
                    ans = min(ans, w)
                    mn[w] = 1
                    k.add(w)
            elif lst:
                if ipt[0] == "pop":
                    d = lst.pop()
                    mn[d] -= 1
                    if not mn[d]:
                        k.remove(d)
                        if ans == d:
                            ans = min(k)
                else:
                    print(ans)
    except:
        pass

cs08581()
```

基本信息

#: 44672164
题目: 22067
提交人: 22n2200011358
内存: 7032kB
时间: 298ms
语言: Python3
提交时间: 2024-04-16 12:16:40

04123:马走日

```
def cs04123():
```

```
    for ii in range(int(input())):
```

```
        n, m, x, y = map(int, input().split())
```

```
        ans = [0]
```

```
        cst0 = [(1, 2), (2, 1), (-1, -2), (-2, -1), (1, -2), (2,
-1), (-1, 2), (-2, 1)]
```

```
        cst = []
```

```
        for i0 in range(n):
```

```
            cst.append([])
```

```
            for j0 in range(m):
```

```
                cst[i0].append([])
```

```
for it in cst0:
```

```
    xi = it[0] + i0
```

```
    yj = it[1] + j0
```

```
    if 0 <= xi < n and 0 <= yj < m:
```

```
        cst[i0][j0].append((xi, yj))
```

```
a = [[True for j in range(m)] for i in range(n)]
```

```
def go(i, j, d):
```

```
    if d == m * n:
```

```
        ans[0] += 1
```

```
    else:
```

```
        a[i][j] = False
```

```
        for ij in cst[i][j]:
```

```
            if a[ij[0]][ij[1]]:
```

```
                go(ij[0], ij[1], d + 1)
```

```
        a[i][j] = True
```

```
go(x, y, 1)
```

```
print(ans[0])
```

状态: **Accepted**

源代码

```
def cs04123():
    for ii in range(int(input())):
        n, m, x, y = map(int, input().split())
        ans = [0]
        cst0 = [(1, 2), (2, 1), (-1, -2), (-2, -1), (1, -2), (2, -1), (-1, 2), (-2, 1)]
        cst = []
        for i0 in range(n):
            cst.append([])
            for j0 in range(m):
                cst[i0].append([])
                for it in cst0:
                    xi = it[0] + i0
                    yj = it[1] + j0
                    if 0 <= xi < n and 0 <= yj < m:
                        cst[i0][j0].append((xi, yj))
        a = [[True for j in range(m)] for i in range(n)]

        def go(i, j, d):
            if d == m * n:
                ans[0] += 1
            else:
                a[i][j] = False
                for ij in cst[i][j]:
                    if a[ij[0]][ij[1]]:
                        go(ij[0], ij[1], d + 1)
                a[i][j] = True

        go(x, y, 1)
        print(ans[0])

cs04123()
```

基本信息

#: 44678276
题目: 04123
提交人: 22n2200011358
内存: 3676kB
时间: 979ms
语言: Python3
提交时间: 2024-04-16 21:28:46

总结：要期中考了，先放个 AC4 的半成品（逃）