

## 20743:整人的提词本

```
def cs20743():  
    ipt = input()  
    lst = []  
    ans = []  
    for i in ipt:  
        if i == ")":  
            p = lst.pop()  
            while p != "(":  
                ans.append(p)  
                p = lst.pop()  
            lst += ans  
            ans = []  
        else:  
            lst.append(i)  
    ans = ""  
    for i in lst:  
        ans += i  
    print(ans)
```

状态: **Accepted**

源代码

```
def cs20743():
    ipt = input()
    lst = []
    ans = []
    for i in ipt:
        if i == "(":
            p = lst.pop()
            while p != "(":
                ans.append(p)
                p = lst.pop()
            lst += ans
            ans = []
        else:
            lst.append(i)
    ans = ""
    for i in lst:
        ans += i
    print(ans)

cs20743()
```

基本信息

#: 44831504  
题目: 20743  
提交人: 22n2200011358  
内存: 3596kB  
时间: 20ms  
语言: Python3  
提交时间: 2024-04-29 17:37:31

## 02255:重建二叉树

```
def cs02255():
```

```
    try:
```

```
        while True:
```

```
            fore, mid = input().split()
```

```
            ans = [""]
```

```
            def fm(f, m):
```

```
                i = m.index(f[0])
```

```
                if i >= 1:
```

```
                    fm(f[1:i + 1], m[:i])
```

```
                if i + 1 < len(f):
```

```
                    fm(f[i + 1:], m[i + 1:])
```

```
            ans[0] += f[0]
```

```
fm(fore, mid)
```

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

```
except:
```

```
exit()
```

#44831659提交状态

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状态: **Accepted**

源代码

```
def cs02255():
    try:
        while True:
            fore, mid = input().split()
            ans = [""]

            def fm(f, m):
                i = m.index(f[0])
                if i >= 1:
                    fm(f[1:i + 1], m[:i])
                if i + 1 < len(f):
                    fm(f[i + 1:], m[i + 1:])
                ans[0] += f[0]

            fm(fore, mid)
            print(ans[0])
    except:
        exit()

cs02255()
```

基本信息

#: 44831659  
题目: 02255  
提交人: 22n2200011358  
内存: 3520kB  
时间: 22ms  
语言: Python3  
提交时间: 2024-04-29 18:04:48

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## 01426:Find The Multiple

```
def cs01426():
```

```
    flag = [True]
```

```
    def s(k, tmp, n):
```

```
        if not n:
```

```
            exit()
```

```
            if flag[0]:
```

```
                if k <= 99:
```

```
for i in ["0", "1"]:
```

```
s(k + 1, tmp + i, n)
```

```
else:
```

```
tmp = int(tmp)
```

```
if not tmp % n and tmp:
```

```
print(tmp)
```

```
flag[0] = False
```

```
while True:
```

```
s(0, "", int(input()))
```

```
flag = [True]
```

#44833531提交状态

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状态: **Accepted**

源代码

```
def cs01426():
    flag = [True]

    def s(k, tmp, n):
        if not n:
            exit()
        if flag[0]:
            if k <= 99:
                for i in ["0", "1"]:
                    s(k + 1, tmp + i, n)
            else:
                tmp = int(tmp)
                if not tmp % n and tmp:
                    print(tmp)
                    flag[0] = False

    while True:
        s(0, "", int(input()))
        flag = [True]

cs01426()
```

基本信息

#: 44833531  
题目: 01426  
提交人: 22n2200011358  
内存: 3588kB  
时间: 1435ms  
语言: Python3  
提交时间: 2024-04-29 21:07:19

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**04115:鸣人和佐助**

```
def cs04115():
```

```
m, n, c0 = map(int, input().split())
```

```
lst, clst = [], []
```

```
itm = [(0, 1), (0, -1), (1, 0), (-1, 0)]
```

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

```
    ipt = input()
```

```
    lst.append([j for j in ipt])
```

```
    clst.append([c0 for j in range(n)])
```

```
    f = ipt.find("@")
```

```
    if f + 1:
```

```
        x0, y0 = i, f
```

```
    t, xy = 0, [(x0, y0)]
```

```
    while xy:
```

```
        t += 1
```

```
        xyi = []
```

```
        while xy:
```

```
            j = xy.pop()
```

```
            lst[j[0]][j[1]] = False
```

```
            for i in itm:
```

```
                xi, yi = j[0] + i[0], j[1] + i[1]
```

```
                if 0 <= xi < m and 0 <= yi < n and
```

```
lst[xi][yi]:
```

```
    if (xi, yi) not in xyi:
```

```
        if lst[xi][yi] == "*":
```

```
xyi.append((xi, yi))
```

```
clst[xi][yi] =
```

```
clst[j[0]][j[1]]
```

```
elif lst[xi][yi] == "#" and
```

```
clst[j[0]][j[1]] > 0:
```

```
xyi.append((xi, yi))
```

```
clst[xi][yi] =
```

```
clst[j[0]][j[1]] - 1
```

```
elif lst[xi][yi] == "+":
```

```
print(t)
```

```
exit()
```

```
else:
```

```
if lst[xi][yi] == "*":
```

```
clst[xi][yi] =
```

```
max(clst[j[0]][j[1]], clst[xi][yi])
```

```
elif lst[xi][yi] == "#":
```

```
clst[xi][yi] =
```

```
max(clst[j[0]][j[1]] - 1, clst[xi][yi])
```

```
xy = xyi
```

```
print(-1)
```

状态: Accepted

源代码

```
def cs04115():
    m, n, c0 = map(int, input().split())
    lst, clst = [], []
    itm = [(0, 1), (0, -1), (1, 0), (-1, 0)]
    for i in range(m):
        ipt = input()
        lst.append([j for j in ipt])
        clst.append([c0 for j in range(n)])
        f = ipt.find("@")
        if f + 1:
            x0, y0 = i, f
            t, xy = 0, [(x0, y0)]
            while xy:
                t += 1
                xyi = []
                while xy:
                    j = xy.pop()
                    lst[j[0]][j[1]] = False
                    for i in itm:
                        xi, yi = j[0] + i[0], j[1] + i[1]
                        if 0 <= xi < m and 0 <= yi < n and lst[xi][yi]:
                            if (xi, yi) not in xyi:
                                if lst[xi][yi] == "*":
                                    xyi.append((xi, yi))
                                    clst[xi][yi] = clst[j[0]][j[1]]
                                elif lst[xi][yi] == "#" and clst[j[0]][j[1]] > 0:
                                    xyi.append((xi, yi))
                                    clst[xi][yi] = clst[j[0]][j[1]] - 1
                                elif lst[xi][yi] == "+":
                                    print(t)
                                    exit()
                    else:
                        pass
```

基本信息

#: 44835335  
题目: 04115  
提交人: 22n2200011358  
内存: 4128kB  
时间: 34ms  
语言: Python3  
提交时间: 2024-04-30 10:56:24

## 20106:走山路

```
def cs20106():
```

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

```
    lst = []
```

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

```
        lst.append(input().split())
```

```
    for i in range(p):
```

```
        ax0, ay0, bx0, by0 = map(int, input().split())
```

```
        if lst[ax0][ay0] == "#" or lst[bx0][by0] == "#":
```

```
            print("NO")
```

```
        else:
```

```
            ans = [10000]
```

```

flst = [[-1 for j in range(n)] for jj in
range(m)]

flst[ax0][ay0] = 0

xy = [(ax0, ay0)]

while xy:

    xyi = []

    while xy:

        ax, ay = xy.pop()

        if ax == bx0 and ay == by0:

            ans[0] = min(ans[0],
flst[ax][ay])

        else:

            for j in [(1, 0), (-1, 0), (0, 1),
(0, -1)]:

                ax1, ay1 = ax + j[0], ay +
j[1]

                if 0 <= ax1 < m and 0 <=
ay1 < n and lst[ax1][ay1] != "#":

                    tmp = flst[ax][ay] +
abs(int(lst[ax1][ay1]) - int(lst[ax][ay]))

                    if flst[ax1][ay1] == -1
or flst[ax1][ay1] > tmp:

```



```
flst[ax1][ay1] =
```

```
tmp
```

```
if (ax1, ay1) not
```

```
in xyi:
```

```
xyi.append((ax1, ay1))
```

```
xy = xyi
```

```
if ans[0] == 10000:
```

```
print("NO")
```

```
else:
```

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

#44836409提交状态

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状态: **Accepted**

源代码

```
def cs20106():
    m, n, p = map(int, input().split())
    lst = []
    for i in range(m):
        lst.append(input().split())
    for i in range(p):
        ax0, ay0, bx0, by0 = map(int, input().split())
        if lst[ax0][ay0] == "#" or lst[ax0][ay0] == "#":
            print("NO")
        else:
            ans = [10000]
            flst = [[-1 for j in range(n)] for jj in range(m)]
            flst[ax0][ay0] = 0
            xy = [(ax0, ay0)]
            while xy:
                xyi = []
                while xy:
                    ax, ay = xy.pop()
                    if ax == bx0 and ay == by0:
                        ans[0] = min(ans[0], flst[ax][ay])
                    else:
                        for j in [(1, 0), (-1, 0), (0, 1), (0, -1)]:
                            ax1, ay1 = ax + j[0], ay + j[1]
                            if 0 <= ax1 < m and 0 <= ay1 < n and lst[ax1][ay1] != "#":
                                tmp = flst[ax][ay] + abs(int(lst[ax1][ay1]) - int(lst[ax][ay]))
                                if flst[ax1][ay1] == -1 or flst[ax1][ay1] > tmp:
                                    flst[ax1][ay1] = tmp
                                    if (ax1, ay1) not in xyi:
                                        xyi.append((ax1, ay1))
                xy = xyi
            if ans[0] == 10000:
                print("NO")
            else:
                print(ans[0])
```

cs20106()

基本信息

#: 44836409  
题目: 20106  
提交人: 22n2200011358  
内存: 3736kB  
时间: 952ms  
语言: Python3  
提交时间: 2024-04-30 16:25:48

## 05442:兔子与星空

```
def cs05442():  
    dct = {}  
    n = int(input()) - 1  
    for i in range(n):  
        ipt = input().split()  
        dct[ipt[0]] = []  
        for j in range(int(ipt[1])):  
            dct[ipt[0]].append((ipt[j * 2 + 2], int(ipt[j  
* 2 + 3])))  
    s = "ABCDEFGHIJKLMNOPQRSTUVWXYZa"  
    tmp = []  
    for i in range(n):  
        tmp += [(i, s.find(j[0]), j[1]) for j in dct[s[i]]]  
    tmp.sort(key=lambda i: i[2])  
    dest = [-1 for i in range(n + 1)]  
    ans, j = 0, 0  
    for i in tmp:  
        iid, jid = i[0], i[1]  
        while dest[iid] + 1:  
            iid = dest[iid]  
        while dest[jid] + 1:
```

```
    jid = dest[jid]
```

```
    if iid-jid:
```

```
        dest[iid] = jid
```

```
    ans += i[2]
```

```
    j += 1
```

```
    if j == n:
```

```
        break
```

```
print(ans)
```

```
cs05442()
```

状态: Accepted

源代码

```
def cs05442():
    dct = {}
    n = int(input()) - 1
    for i in range(n):
        ipt = input().split()
        dct[ipt[0]] = []
        for j in range(int(ipt[1])):
            dct[ipt[0]].append((ipt[j * 2 + 2], int(ipt[j * 2 + 3])))
    s = "ABCDEFGHJKLMNOPQRSTUVWXYZa"
    tmp = []
    for i in range(n):
        tmp += [(i, s.find(j[0]), j[1]) for j in dct[s[i]]]
    tmp.sort(key=lambda i: i[2])
    dest = [-1 for i in range(n + 1)]
    ans, j = 0, 0
    for i in tmp:
        iid, jid = i[0], i[1]
        while dest[iid] + 1:
            iid = dest[iid]
        while dest[jid] + 1:
            jid = dest[jid]
        if iid < jid:
            dest[iid] = jid
            ans += i[2]
            j += 1
        if j == n:
            break
    print(ans)
```

cs05442()

基本信息

#: 44837213

题目: 05442

提交人: 22n2200011358

内存: 3676kB

时间: 19ms

语言: Python3

提交时间: 2024-04-30 18:56:24

总结: 我花了很多时间, 原因之一是思维定势看到题就想着用 dfs 做, 然后意识到才改过来。鸣人这题我卡了很久, 最终 Ac 也是学到了很多减枝的办法。每题我都看了其他同学的运行时间, 学了很多简洁的思路