

28170:算鷹

```
def cs28170():  
    n = 10  
    chess = []  
    flag = []  
    for i in range(n):  
        chess.append([i == "." for i in input()])  
        flag.append([True for i in range(n)])  
  
    def go(x, y):  
        flag[x][y] = False  
        for i in [(1, 0), (-1, 0), (0, 1), (0, -1)]:  
            xi, yi = x + i[0], y + i[1]  
            if 0 <= xi < n and 0 <= yi < n and flag[xi][yi]  
and chess[xi][yi]:  
                go(xi, yi)  
  
    ans = 0  
    for i in range(n):  
        for j in range(n):  
            if flag[i][j] and chess[i][j]:  
                go(i, j)
```

```
ans += 1
```

```
print(ans)
```

#44839298提交状态

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状态: **Accepted**

源代码

```
def cs28170():
    n = 10
    chess = []
    flag = []
    for i in range(n):
        chess.append([i == "." for i in input()])
        flag.append([True for i in range(n)])

    def go(x, y):
        flag[x][y] = False
        for i in [(1, 0), (-1, 0), (0, 1), (0, -1)]:
            xi, yi = x + i[0], y + i[1]
            if 0 <= xi < n and 0 <= yi < n and flag[xi][yi] and chess[xi][yi] == ".":
                go(xi, yi)

    ans = 0
    for i in range(n):
        for j in range(n):
            if flag[i][j] and chess[i][j] == ".":
                go(i, j)
                ans += 1

    print(ans)

cs28170()
```

基本信息

#: 44839298
题目: 28170
提交人: 22n2200011358
内存: 3640kB
时间: 20ms
语言: Python3
提交时间: 2024-05-01 10:22:29

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18250:冰阔落 I

```
def cs18250():
```

```
    try:
```

```
        while True:
```

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

```
            bottle = [[i] for i in range(n)]
```

```
            cola = [i for i in range(n)]
```

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

```
                x, y = map(lambda j: int(j) - 1,
```

```
input().split())
```

```
                if cola[x] == cola[y]:
```

```
print("Yes")
```

```
else:
```

```
print("No")
```

```
tmp = cola[y]
```

```
while bottle[tmp]:
```

```
    pour = bottle[tmp].pop()
```

```
    bottle[cola[x]].append(pour)
```

```
    cola[pour] = cola[x]
```

```
print(bottle, cola)
```

```
ans = []
```

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

```
    if bottle[i]:
```

```
        ans.append(i)
```

```
print(len(ans))
```

```
for i in ans[::-1]:
```

```
    print(i + 1, end=" ")
```

```
print(ans[-1] + 1)
```

```
except:
```

```
    pass
```

状态: Accepted

源代码

```
def cs18250():
    try:
        while True:
            n, m = map(int, input().split())
            bottle = [[i] for i in range(n)]
            cola = [i for i in range(n)]
            for i in range(m):
                x, y = map(lambda j: int(j) - 1, input().split())
                if cola[x] == cola[y]:
                    print("Yes")
                else:
                    print("No")
                    tmp = cola[y]
                    while bottle[tmp]:
                        pour = bottle[tmp].pop()
                        bottle[cola[x]].append(pour)
                        cola[pour] = cola[x]

            ans = []
            for i in range(n):
                if bottle[i]:
                    ans.append(i)
            print(len(ans))
            for i in ans[::-1]:
                print(i+1, end=" ")
            print(ans[-1]+1)
    except:
        pass

cs18250()
```

基本信息

#: 44839979
题目: 18250
提交人: 22n2200011358
内存: 35296kB
时间: 23356ms
语言: Python3
提交时间: 2024-05-01 12:24:41

05907:二叉树的操作

```
def cs05907():
```

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

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

```
        dct = {}
```

```
        f = {}
```

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

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

```
            dct[x] = [y, z]
```

```
            f[y] = [x, 0]
```

```
            f[z] = [x, 1]
```

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

```
ipt = tuple(map(int, input().split()))
```

```
if ipt[0] == 1:
```

```
    dct[f[ipt[1]][0]][f[ipt[1]][1]] = ipt[2]
```

```
    dct[f[ipt[2]][0]][f[ipt[2]][1]] = ipt[1]
```

```
    f[ipt[1]], f[ipt[2]] = f[ipt[2]], f[ipt[1]]
```

```
else:
```

```
    x = ipt[1]
```

```
    while dct[x][0] + 1:
```

```
        x = dct[x][0]
```

```
print(x)
```

#44841682提交状态

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状态: Accepted

源代码

```
def cs05907():
    for t in range(int(input())):
        n, m = map(int, input().split())
        dct = {}
        f = {}
        for i in range(n):
            x, y, z = map(int, input().split())
            dct[x] = [y, z]
            f[y] = [x, 0]
            f[z] = [x, 1]
        for i in range(m):
            ipt = tuple(map(int, input().split()))
            if ipt[0] == 1:
                dct[f[ipt[1]][0]][f[ipt[1]][1]] = ipt[2]
                dct[f[ipt[2]][0]][f[ipt[2]][1]] = ipt[1]
                f[ipt[1]], f[ipt[2]] = f[ipt[2]], f[ipt[1]]
            else:
                x = ipt[1]
                while dct[x][0] + 1:
                    x = dct[x][0]
                print(x)
```

cs05907()

基本信息

#: 44841682

题目: 05907

提交人: 22n2200011358

内存: 3828kB

时间: 67ms

语言: Python3

提交时间: 2024-05-01 18:27:23

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03151:Pots

```
def cs03151():
```

```
    a, b, c = map(int, input().split())
```

```
    memory = set()
```

```
queue = [(0, 0), []]
```

```
while queue:
```

```
next = []
```

while queue:

```
i = queue.pop()
```

```
if i[0][0] == c or i[0][1] == c:
```

```
print(len(i[1]))
```

```
for j in i[1]:
```

```
print(j)
```

```
exit()
```

```
if i[0] not in memory:
```

```
memory.add(i[0])
```

```
if i[0][0]:
```

```
next.append([(0, i[0][1]), i[1] +
```

```
["DROP(1)"]])
```

```
next.append([max(0, i[0][0] +
```

$$i[0][1] - b), \min(i[0][0] + i[0][1], b)), i[1] +$$

```
["POUR(1,2)"]])
```

```
if i[0][1]:
```

```
next.append([(i[0][0], 0), i[1] +
```

```
["DROP(2)"]])
```

```
next.append([(min(i[0][0] + i[0][1],
```

```
a), max(0, i[0][0] + i[0][1] - a)), i[1] + ["POUR(2,1)"]])
```

```
if i[0][0] - a:
```

```
nxt.append([(a, i[0][1]), i[1] +
```

```
["FILL(1)"]])
```

```
if i[0][1] - b:
```

```
nxt.append([(i[0][0], b), i[1] +
```

```
["FILL(2)"]])
```

```
queue = nxt
```

```
print("impossible")
```

#44842354提交状态

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状态: Accepted

源代码

```
def cs03151():
    a, b, c = map(int, input().split())
    memory = set()
    queue = [(0, 0), []]
    while queue:
        nxt = []
        while queue:
            i = queue.pop()
            if i[0][0] == c or i[0][1] == c:
                print(len(i[1]))
                for j in i[1]:
                    print(j)
                exit()
            if i[0] not in memory:
                memory.add(i[0])
                if i[0][0]:
                    nxt.append([(0, i[0][1]), i[1] + ["DROP(1)"]])
                    nxt.append([(max(0, i[0][0] + i[0][1] - b), min(i[0][0], i[0][1] - b)), i[1] + ["DROP(2)"]])
                if i[0][1]:
                    nxt.append([(i[0][0], 0), i[1] + ["DROP(2)"]])
                    nxt.append([(min(i[0][0] + i[0][1], a), max(0, i[0][1] - b)), i[1] + ["DROP(2)"]])
                if i[0][0] - a:
                    nxt.append([(a, i[0][1]), i[1] + ["FILL(1)"]])
                if i[0][1] - b:
                    nxt.append([(i[0][0], b), i[1] + ["FILL(2)"]])
        queue = nxt
    print("impossible")
cs03151()
```

基本信息

#: 44842354

题目: 03151

提交人: 22n2200011358

内存: 3664kB

时间: 23ms

语言: Python3

提交时间: 2024-05-01 20:50:58

05443:兔子与樱花

```
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)
```

#44842793提交状态

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状态: **Accepted**

源代码

```
def cs05443():
    dct = {}
    for i in range(int(input())):
        dct[input()] = []
    for i in range(int(input())):
        ipt = input().split()
        dct[ipt[0]].append((ipt[1], int(ipt[2])))
        dct[ipt[1]].append((ipt[0], int(ipt[2])))
    for i in range(int(input())):
        ini, des = input().split()
        queue = [(ini, 0)]
        memory = {ini: (0, ini)}
        while queue:
            nxt = []
            while queue:
                j = queue.pop()
                for k in dct[j[0]]:
                    if k[0] not in memory or memory[k[0]][0] > j[1] + k[1]:
                        memory[k[0]] = (j[1] + k[1], memory[j[0]][1] + k[1])
                        nxt.append((k[0], j[1] + k[1]))
            queue = nxt
        print(memory[des][1])

cs05443()
```

基本信息

#: 44842793

题目: 05443

提交人: 22n2200011358

内存: 3580kB

时间: 21ms

语言: Python3

提交时间: 2024-05-01 22:04:00

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02754:八皇后

```
def cs02754():
```

```
c = "12345678"
```

```
a = []
```

```
def go(ans, n):
```

```
if n == 8:
```

```
a.append(ans)
```

```
for i in c:
```

```
    if ans.find(i) == -1:
```

```
        k, flag = 0, True
```

```
        for j in ans:
```

```
            if int(i) - n == int(j) - k or int(i) +
```

```
n == int(j) + k:
```

```
                flag = False
```

```
                break
```

```
        k += 1
```

```
    if flag:
```

```
        go(ans + i, n + 1)
```

```
go("", 0)
```

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

```
    print(a[int(input()) - 1])
```

```
cs02754()
```

状态: **Accepted**

源代码

```
def cs02754():
    c = "12345678"
    a = []

    def go(ans, n):
        if n == 8:
            a.append(ans)
            for i in c:
                if ans.find(i) == -1:
                    k, flag = 0, True
                    for j in ans:
                        if int(i) - n == int(j) - k or int(i) + n == int(j):
                            flag = False
                            break
                    k += 1
                if flag:
                    go(ans + i, n + 1)

    go("", 0)
    for i in range(int(input())):
        print(a[int(input())-1])

cs02754()
```

基本信息

#: 44891026
题目: 02754
提交人: 22n2200011358
内存: 3612kB
时间: 35ms
语言: Python3
提交时间: 2024-05-07 20:24:16

总结: 本次作业难度低于上次, 想明白以后基本一遍过, POT 那题多花了点时间, 是看到 bfs 的提示并且数据量比较小才做出来的