

```
# Python
# matrices
# "小行星"模型(常见类似问题)

planet = []
n,m = map(int,input().split())
for i in range(m):
    row = list(map(int,input().split()))
    planet.append(row)
a,b = list(map(int,input().split()))
blacklist = 0
while blacklist == 0:
    stt = input().strip()
    if stt == "1":
        if a <= n - 2:
            a += 1
        else:
            a = 0
        if b >= 1:
            b -= 1
        else:
            b = m - 1
    elif stt == "2":
        if a <= n - 2:
            a += 1
        else:
            a = 0
    elif stt == "3":
        if a <= n - 2:
            a += 1
        else:
            a = 0
        if b <= m - 2:
            b += 1
        else:
            b = 0
    elif stt == "4":
        if b >= 1:
            b -= 1
```

```

        else:
            b = m - 1
    elif stt == "5":
        for new_row in planet:
            print(' '.join(map(str, new_row)))
    elif stt == "6":
        if b <= m - 2:
            b += 1
        else:
            b = 0
    elif stt == "7":
        if a >= 1:
            a -= 1
        else:
            a = n - 1
        if b >= 1:
            b -= 1
        else:
            b = m - 1
    elif stt == "8":
        if a >= 1:
            a -= 1
        else:
            a = n - 1
    elif stt == "9":
        if a >= 1:
            a -= 1
        else:
            a = n - 1
        if b <= m - 2:
            b += 1
        else:
            b = 0
    elif stt == "-":
        if planet[a][b] >= 1:
            planet[a][b] = planet[a][b] - 1
        else:
            print("No trees")
    elif stt == "+":
        planet[a][b] = planet[a][b] + 1

```

```
elif stt == "0":  
    blacklist = 1  
    for new_row in planet:  
        print(' '.join(map(str, new_row)))  
else:  
    print("You are staying.")  
print(a,b,planet[a][b])  
if stt == "0":  
    print("End")
```