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18M18CS030

AI - Lab Test 1

(write-up)

Q.3 Vacuum Cleaner

Main Function

```
def start_cleaning():
```

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

```
        if i % 2 == 0:
```

```
            for j in range(col):
```

```
                if arr[i][j] == 0
```

```
                    print(arr)
```

```
                    print("Position Cleaned!!!")
```

```
                    print("Moving Right!!!")
```

```
                    print("\n")
```

```
            else:
```

```
                print(arr)
```

```
                print("No operation needed")
```

```
                print("\n")
```

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AI - Lab Test - 1

(Write-Up)

Continued...

else :

for j in reversed(range(col)) :

if arr[i][j] == 1 :

arr[i][j] = 0

print(arr)

print("Position Cleaned !!!")

print("Moving left !!!")

print("\n")

else :

print(arr)

print("No Operation Needed")

print("\n")

print("Final Condition")

print(arr).