Uniformity matrix

```
r=int(input())
a=[]
for i in range(r):
    L=list(map(int,input().split()))
    a.append(L)
f_even=True
f_odd = True
for i in range(r):
    for j in range(r):
        if a[i][j]%2==0:
            f_odd=False
        else:
            f_even=False
if f_even or f_odd:
    print("Yes")
else:
    print("No")
```

Magic square :

```
n=int(input())
m=n
matrix=[]
for i in range(n):
    matrix.append(list(map(int,input().split())))
    add1=0
    add2=0
for i in range(n):
    ans2=matrix[i]
    add1+=ans2[i]
for i in range(n):
    ans2=matrix[i]
    add2+=ans2[m-1]
    m-=1
if add1==add2:
    print("Yes")
else:
    print("No")
```

Sum of rows and columns

```
rows = int(input())
cols = int(input())
matrix = []
for _ in range(rows):
    matrix.append(list(map(int, input().split())))
row_sums = []
for row in matrix:
    row_sums.append(sum(row))
col_sums = []
for j in range(cols):
    col_sum = 0
    for i in range(rows):
        col_sum += matrix[i][j]
    col_sums.append(col_sum)
max_row_index = row_sums.index(max(row_sums)) + 1
max_col_index = col_sums.index(max(col_sums)) + 1
print("The Sum of rows is", ' '.join(map(str, row_sums)))
print(f"Row {max_row_index} has a maximum sum")
print("The Sum of columns is", ' '.join(map(str, col_sums)))
print(f"Column {max_col_index} has the maximum sum")
```