ONTIME UPDATES

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The Joy of Computing using Python

WEEK-3

Programming Assignment 1

```
r = int(input())
c = int(input())
matrix = []
for _ in range(r):
    row = list(map(int, input().split()))
    matrix.append(row)
saddle_point_exists = 0
for i in range(r):
    min_row_value = min(matrix[i])
    min_index = matrix[i].index(min_row_value)
    is_saddle_point = True
    for j in range(r):
        if matrix[j][min_index] > min_row_value:
            is_saddle_point = False
            break
    if is_saddle_point:
        saddle_point_exists = 1
        break
print(saddle_point_exists)
```

Programming Assignment 2

```
r = int(input())
c = int(input())
matrix = []
for _ in range(r):
    row = list(map(int, input().split()))
    matrix.append(row)

scalar = int(input())
transpose_matrix = []
for j in range(c):
    transpose_row = []
    for i in range(r):
        transpose_row.append(matrix[i][j])
    transpose_matrix.append(transpose_row)
result_matrix = []
for i in range(c):
    result_row = []
    for j in range(r):
        result_row.append(transpose_matrix[i][j] * scalar)
    result_matrix.append(result_row)
for row in result_matrix:
    print(' '.join(map(str, row)))
```

Programming Assignment 3

```
r = int(input())
matrix = []
for _ in range(r):
    row = list(map(int, input().split()))
    matrix.append(row)
is_skew_symmetric = True
for i in range(r):
    for j in range(r):
        if matrix[i][j] != -matrix[j][i]:
            is_skew_symmetric = False
            break
    if not is_skew_symmetric:
        break
if is_skew_symmetric:
    print(1)
else:
    print(0)
```