## Problem Set 3 Exercise #22: Maximum Row Sum and Column Sum of Matrix

Reference: Lecture 8 notes

**Learning objective:** Two-dimensional array

**Estimated completion time**: 40 minutes

## **Problem statement:**

Write a program PS3\_Ex22\_MaxRowColSums.java that reads a matrix of integers and prints out the maximum row sum of all the rows, followed by the maximum column sum of all the columns.

Your program should contain the following two static methods to compute and return the maximum row sum and column sum of the given matrix respectively.

```
int getMaxRowSum(int[][] mtx)
int getMaxColSum(int[][] mtx)
```

## Sample run #1:

## Sample run #2:

```
Enter the size of the matrix: 4 6
Enter elements row by row:
67 50 26 3 35 17
50 26 3 35 67 3
26 3 35 50 67 35
3 26 35 50 67 68
Max row sum = 249
Max col sum = 236
```