## Problem Set 3 Exercise #21: Minimum and Maximum Matrix Elements

Reference: Week 9 Lecture notes

**Learning objectives:** Two-dimensional array; Pointers

Estimated completion time: 20 minutes

#### **Problem statement:**

Write a program min\_max.c that prints out the minimum and maximum elements of an integer 2D array. Your program should contain a function

that returns the minimum and maximum elements in 2D array mtx through two pointers. MAX\_ROWS and MAX\_COLS are two symbolic constants with value 10. They represent the declared size of mtx. num\_rows and num\_cols are the actual number of rows and columns to process.

### 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
Min = 3
Max = 68
```

# **Useful tip:**

For testing, you may copy input data from the PDF file instead of typing them in manually.