

CS 100
Fall 2015
Lab #4

1. Given an $m \times n$ matrix M find the minimum element in M
 - a) by using the built-in function `min` only once
 - b) by using the built-in function `min` two times
 - c) by using only the built-in function `max`

2. Given an array A , sort the elements in A in descending order and find the second largest element in A .

3. Generate a 1000×1000 matrix M . The values in M must be generated uniformly randomly from the range between -10 and 10 .
 - a) compute the average of each row in M
 - b) compute the average of each column in M
 - c) compute the standard deviation of each row in M
 - d) compute the standard deviation of each column in M
 - e) count how many entries in M are between 0 and 2 .