# AMS 148 Chapter 5: Reduce and Scan 

April 25, 2018

For this homework you will be required to create a typed report. You will also need to include annotated code for each problem.

## 1 Excercises From Chapter 3

Both problems from the end of Chapter 3 are required. Be sure to create a table illustrating the times. For extra-credit include the relative speedup, between each implementation and a serial version.

## 2 Excercises From Chapter 4

Problem 4.1 is required. In this problem illustrate the timing and speed up in a table as in the notes. Comment on what you had to change to get the shared matrix multiplication to correctly work with a tranposed matrix.

The last problem is of your choice between problem 4.2 and 4.3. If you choose 4.2 , use the Cimg library to access the RGB channels as we did in the grayscale code.

