CSC 201 Data Structures
Professor Burg
Fall 2020
Programming Assignment 3
Grading Sheet

Due Wednesday, October 28 at 11:59 PM

75 points for program
point values given in parentheses

_____ submitted on time

_____ program formatted in a consistent and readable style (2)

_____ comments done as instructed (3)

_____ HashTable, RGB, and Freq classes are created, each containing the methods that logical should be the responsibility of those classes. Methods that are never used for this program don't need to be created (5)

_____ main method -- basic parts (10)

- file names and pixel dimensions come in from the outside, either through command-line arguments of through prompts allowing the user to set the arguments
- HashTable object created
- pixels are read in
- each pixel color instance is sent to the hash table to be inserted

_____ when all pixels have been inserted, *main* makes a call to a hash table method that prints out the data requested in the assignment

____ all information is printed out and seems reasonable (15)
____ the output is formatted in a readable style, as instructed (5)

_____ insertions are done correctly according to the assigned collision resolution method (20)

_____ when all insertions are done, the colors in the image are sorted by frequency, and the 256 most frequent colors are printed, with the RBG value of each color and its frequency (15)

25 points for the writeup

_____ all test cases are run and have reasonable output (12)

_____ the writeup gives a thoughtful analysis of the results (13)