University of Louisiana at Lafayette
School of Computing and Informatics
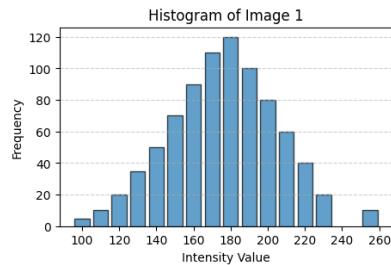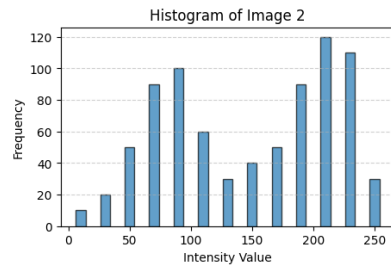
CSCE 508: Image Processing
Spring Semester, 2025

Assignment 01 (100 pts) (due 2/18 5 PM)

This assignment is worth 100 points: 90 points for coding questions and 10 points for the written question.

1. **(10 pts) Histogram matching**. Transfer the histogram of Image 1 to match that of Image 2.

   This question is part of Q1.4 in your coding question. Show all steps and derivations. Answers without proper justification will typically receive 0 points. Please save your answers in a PDF file, zip it together with your .ipynb file, and submit the zipped file to Moodle.

Histogram of Image 1

Histogram of Image 2

Intensity	# of pixels
100	5
110	10
120	20
130	35
140	50
150	70
160	90
170	110
180	120
190	100
200	80
210	60
220	40
230	20
250	10

Intensity	# of pixels
10	10
30	20
50	50
70	90
90	100
110	60
130	30
150	40
170	50
190	90
210	120
230	110
250	30