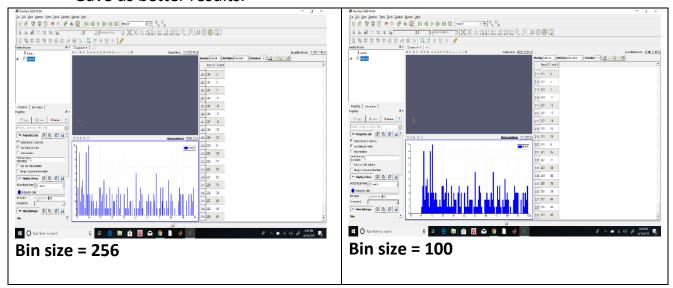
ASSIGNMENT 3

Part 1: Loading Simple Data

What is the problem of this histogram?

- The problem of the histogram was that the bin size of the histogram was set to 256.
- We only had values ranging from 0-99 and so setting the bin size to 100. Gave us better results.



Which number occurred the most frequently and how many times did it occur?

• We can see that the number 10 occurred the maximum number of times, which is 10 times.

How many numbers were never used by the class?

• 14 numbers were never used.

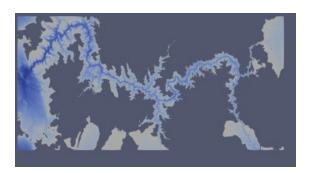
Part 2: Visualizing a 2D image

What threshold did you use for capturing the riverbed?

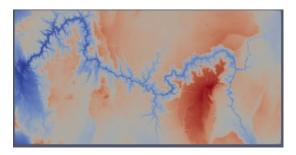
• The maximum threshold, I set is 98

Experiment with other thresholds and explain what features you may or may not have missed with this approach.

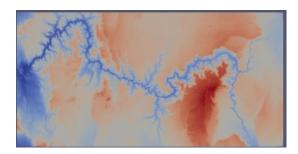
• When the threshold is set to 98, only the blue outline of the river bed is really visible, along with the part surrounding the river.



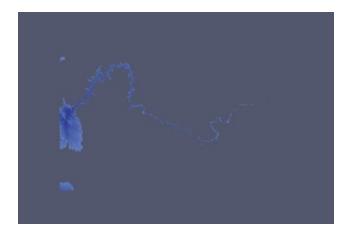
• When it is set to 187, the different color intensities from the river to the land are visible



• When I set it to 200, I did not see much difference between the visual produced when the maximum was set to 187



• When set to 50, I could only see the blue for the river, no other visualization for the river banks or the land.



Using the Information panel, report the number of pixels in this image

X range: 0 to 4096Y range: 0 to 2048Z range: 0 to 0

Part 3: Visualizing 3D Image

What is the dataset representing?

The data represents a bone structure.

Explore different values for creating the isosurface

