Name: Alif Rahi
Section: CSCI 381 - Computer Vision / Tues-Thurs 1:40-2:55pm
Project: 0.2
Due: Feb 01, 2023

Main algorithm steps:

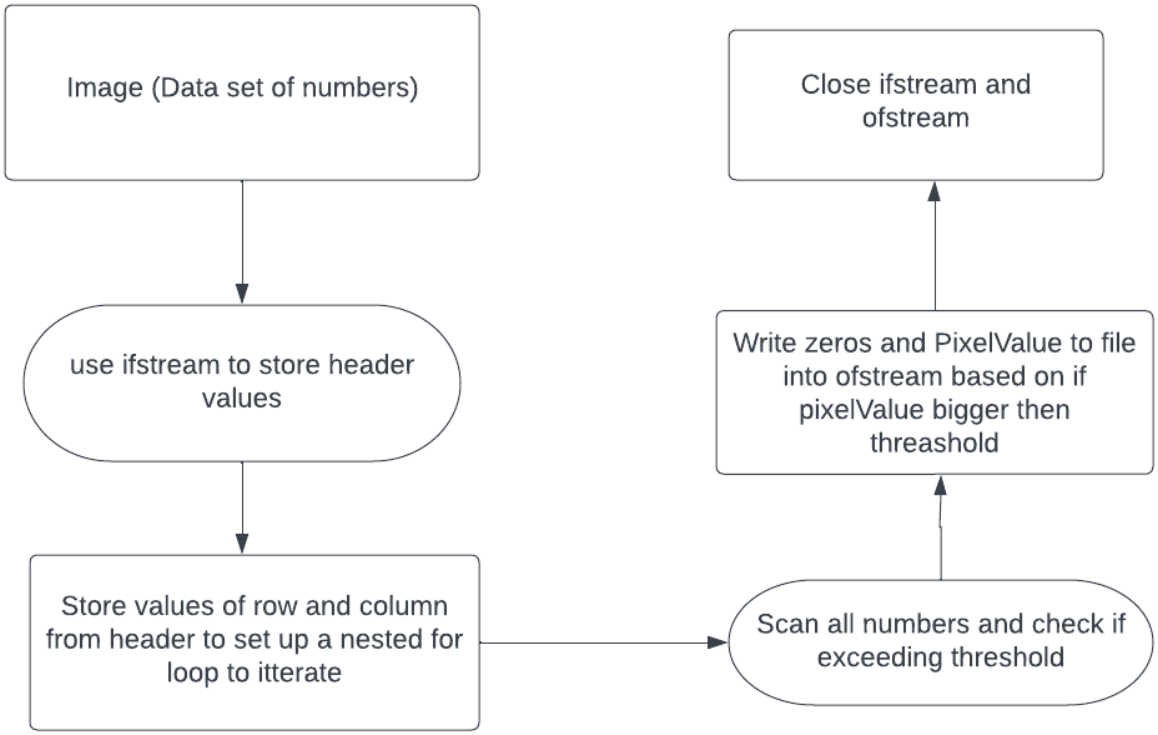
Step 0: inFile1open argv[1], outFile1 open argv[2]

Step 1: numRows, numCols, minVal, maxValread from inFile step 2: the Value ask user from console

Step 3: outFile2write numRows, numCols, 0, maxVal to outFile2 step 4: processing (inFile1, outFile1, thrValue)

Step 5: close all files

Illustration



Source code

```
#include <iostream>
#include <fstream>
using namespace std;

void processing(char inFileName[], char outFileName[], int thrVal);

int main(int argc, char **argv)
{
   int row, col, min, max;
   if (argc >= 3)
   {
       processing(argv[1], argv[2], 6);
   }
   else
   {
       cout << "Incorrect arguements." << endl;
   }
   return 0;
}

void processing(char inFileName[], char outFileName[], int thrVal)
{
   int r, c, min, max;
   ifstream take(inFileName);
   ofstream myfile(outFileName);
   take >> r;
   take >> c;
   take >> min;
   take >> max;
   myfile << r << " " << c << " " << 0 << " " << max << "\n";

   for (int i = 0; i < r; i++)
   {
       for (int j = 0; j < c; j++)
       {
           int pixelValue;
           take >> pixelValue;
           if (pixelValue >= thrVal)
           {
               // write pixelValue to output.txt
               myfile << pixelValue << " ";
```

```
            }
            else
            {
                // write 0 to output.txt
                myfile << "0 ";
            }
        }
        myfile << "\n";
    }
    myfile.close();
    take.close();
}
```

Output