Name: Alif Rahi
Section: CSCI 381 - Computer Vision / Tues-Thurs 1:40-2:55pm
Project: 0.1
Due: Jan, 31, 2023

Main algorithm steps:

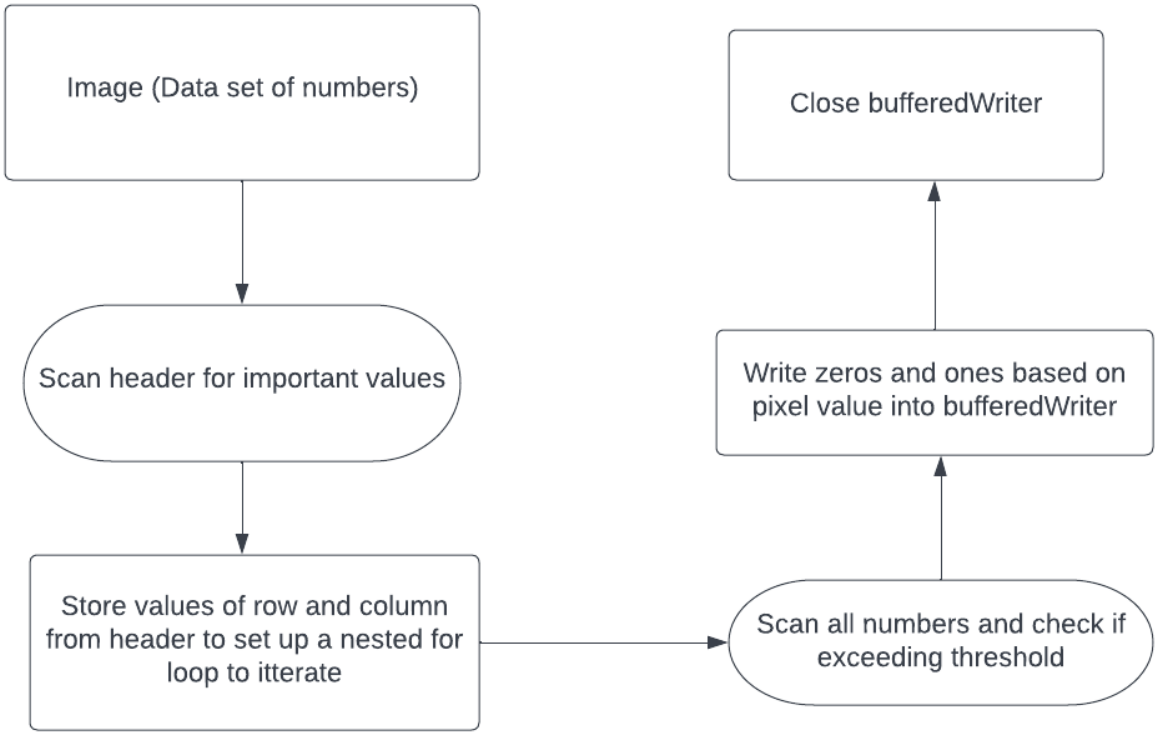
Step 0: inFile1 open args[0] , outFile1 open args[1]

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

Step 3: outFile1write numRows, numCols, 0, 1 to outFile1 step 4: processing (inFile1, outFile1, thrValue)

Step 5: close all files

Illustration



Source code

```
import java.util.*;

public class RahiA_Project01 {
	public static void main(String[] args) {
		if (2 <= args.length) {
			File inFile = new File(args[0]);
			File outFile = new File(args[1]);
		processing(inFile, outFile, 6);

		} else {
		  System.err.println("Invalid arguments count:" + args.length);
		  System.exit(0);
		}

	}


	private static void processing(File inFile, File outFile, int thrVal) {
		BufferedWriter bw = null;
		Scanner scanner;
		try {
			bw = new BufferedWriter(new FileWriter(outFile));

			try {
				scanner = new Scanner(inFile);
				int row;
				int col;
				int low;;
				int high;

				row = scanner.nextInt();
				col = scanner.nextInt();
				low = scanner.nextInt();
				high = scanner.nextInt();
				//write the header
				bw.write(row+" "+col+" "+low+" "+high+"\n");

				for(int i=0; i<row; i++) {
					for(int j=0; j<col; j++) {
						if(scanner.hasNextInt()){
							if(scanner.nextInt() >= thrVal) {
								//write 1 to output.txt
								bw.write(1+" ");
		}
		else {
		   //write 2 to output.txt
		   bw.write(0+" ");
		}

			}
			else {
				scanner.next();
			}
		}
		bw.write("\n");
	}
	bw.close();

			} catch (FileNotFoundException e1) {
				System.out.println("oops. scanner error");
				e1.printStackTrace();
			}
		} catch (IOException e) {
			System.out.println("oops. bw error");
			e.printStackTrace();
		}


	}



}
```

Output

45 45 1 63