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CSCI 381-26 Project 9: Hough Transform for line detection Language: JAVA

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**Part 1: Algorithm**

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I. main (…)

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step 0: inFile 🡨 open input file from args

outFile1, outFile2 🡨 open from args

numRows, numCols, minVal, maxVal 🡨- read from inFile

HoughAngle 🡨 180

HoughDist 🡨2 \* (the diagonal of the input image)

imgAry 🡨 dynamically allocate

HoughAry 🡨 dynamically allocate HoughAry, size of

HoughDist by HoughAngle and initialize to zero

step 1: loadImage(imgAry, inFile)

Step 2: buildHoughSpace (...)

Step 3: prettyPrint(HoughAry, outFile1)

Step 4: determineMinMax (HoughAry)

Step 5: write HoughDist, HoughAngle, HoughMinVal, HoughMaxVal to outFile2

// as the header of Hough image

step 6: ary2File (HoughAry, outFile2) // output HoughAry to outFile2

Step 7: close all files

**Part 2: Source code**

import java.io.\*;

import java.util.\*;

class Main {

public static int numRows, numCols, minVal, maxVal;

public static int[][] imgAry;

static void loadImage(int[][] Ary,Scanner file){

for(int i = 0 ; i < numRows ; i++){

for(int j = 0 ; j < numCols ; j++){

Ary[i][j] = file.nextInt();

}

}

}

public static void main(String[] args) throws IOException{

HoughTransform HT = new HoughTransform();

Scanner inFile = new Scanner(new FileInputStream(args[0]));

PrintWriter outFile1 = new PrintWriter(new FileOutputStream(args[1]));

PrintWriter outFile2 = new PrintWriter(new FileOutputStream(args[2]));

numRows = inFile.nextInt();

numCols = inFile.nextInt();

minVal = inFile.nextInt();

maxVal = inFile.nextInt();

int diagonal = (int) Math.sqrt((numRows \* numRows) + (numCols \* numCols));

HT.HoughAngle = 180;

HT.HoughDist = 2 \* diagonal;

imgAry = new int[numRows][numCols];

HT.HoughAry = new int[HT.HoughDist][HT.HoughAngle];

for(int i = 0 ; i < HT.HoughDist ; i++){

for(int j = 0 ; j < HT.HoughAngle ; j++){

HT.HoughAry[i][j] = 0;

}

}

loadImage(imgAry, inFile);

HT.buildHoughSpace(imgAry, numRows, numCols);

HT.prettyPrint(HT.HoughAry, outFile1);

HT.determineMinMax(HT.HoughAry);

outFile2.println(HT.HoughDist + " " + HT.HoughAngle + " " + HT.HoughMinVal + " " + HT.HoughMaxVal);

HT.ary2File(HT.HoughAry, outFile2);

inFile.close();

outFile1.close();

outFile2.close();

}

}

class HoughTransform{

private static class xyCoord{

int x;

int y;

xyCoord(){

this.x = x;

this.y = y;

}

}

public static int angleInDegree;

public static double angleInRadians;

public static int HoughDist;

public static int HoughAngle;

public static int HoughMinVal = 99999;

public static int HoughMaxVal = 0;

public static int[][] HoughAry;

static void buildHoughSpace(int[][] Ary, int row, int col){

xyCoord point = new xyCoord();

for(int r = 0 ; r < row ; r++){

for(int c = 0 ; c < col ; c++){

if(Ary[r][c] > 0){

point.x = c;

point.y = r;

angleInDegree = 0;

while(angleInDegree <= 179){

angleInRadians = angleInDegree / 180.00 \* Math.PI;

double dist = computeDistance(point, angleInRadians);

int distInt = (int) dist;

HoughAry[distInt][angleInDegree]++;

angleInDegree++;

}

}

}

}

}

static double computeDistance(xyCoord point,double angleRadians){

double dis = 0.00, offset = HoughDist/2;

double x = point.x;

double y = point.y;

double t = angleRadians - Math.atan(y/x) - (Math.PI/2);

dis = Math.sqrt((x \* x)+(y \* y)) \* Math.cos(t) + offset;

return dis;

}

public static void determineMinMax(int[][] Ary){

for(int i = 0 ; i < HoughDist; i++){

for(int j = 0 ; j < HoughAngle ; j++){

if(Ary[i][j] > HoughMaxVal){

HoughMaxVal = Ary[i][j];

}

if (Ary[i][j] < HoughMinVal) {

HoughMinVal = Ary[i][j];

}

}

}

}

public static void prettyPrint(int[][] Ary, PrintWriter file){

for(int i = 0 ; i < HoughDist; i++){

for(int j = 0 ; j < HoughAngle ; j++){

if(Ary[i][j] == 0){

file.print(" ");

}

else{

file.print(Ary[i][j] + " ");

}

}

file.println();

}

}

public static void ary2File(int[][] Ary, PrintWriter file){

for(int i = 0 ; i < HoughDist ; i++){

for(int j = 0 ; j < HoughAngle ; j++){

if(Ary[i][j] >=1 ){

file.print(Ary[i][j] + " ");

}

else{

file.print(0 + " ");

}

}

file.println();

}

}

}

**Part 3: Output**

* HoughTransform\_2lines
* outFile1

**1 1 1**

**1 1**

**2 2 2 1 1 2 2**

**1 1 1 1 1 2 2 1 1 1**

**2 1 1 2 2 2 1 1 1 1 1 1 1 1**

**1 1 1 2 3 2 2 1 1 1 1 1 1**

**2 2 2 2 2 1 1 1 1 2 1 2 2 1 1 1 1**

**1 1 2 2 2 1 1 1 1 1 2 1 1 1 1 1**

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* Histogram of outFile2

90 180 0 14

0 13015

1 2343

2 690

3 102

4 19

5 15

6 7

7 3

8 2

9 0

10 1

11 1

12 1

13 0

14 2

* outFile2

**90 180 0 14**

**0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0**

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**0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0**

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**1 1 1 2 2 2 2 2 2 1 1 1 2 3 3 4 4 2 2 3 3 3 3 4 6 5 4 5 4 3 4 4 6 5 5 6 3 4 5 5 6 9 12 5 1 1 1 1 1 1 1 1 1 2 2 2 1 2 1 0 1 2 1 2 2 1 2 2 1 1 1 1 1 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0**

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* Histogram of outFile2

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0 15687

1 488

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* pretty print of threshold outFile2
  + threshold value is 1

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* HoughTransform\_3Pts
* outFile1

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* Histogram of outFile2

90 180 0 2

0 15675

1 512

2 14

* pretty print of threshold outFile2
  + threshold value is 1

**1 1 1 1 1 1 1 1**

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