CSCI 381 (C++)

Project 1.2 PrettyPrint

Essam Yousry

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Algorithm Steps for PrettyPrint:

Step 0: Open input file

Open the output file with the required name

Step 1: read the image header from input file

Step 2: process input from left to right and top to bottom

Step 3: repeat step 2 until input file is empty

Step 4: close input and output file

Source Code

#include <iostream>

#include <fstream>

using namespace std;

int main (int argc, char \*argv[])

{

    int vars[4], row, col, min, max;

    int x[2];

    ifstream myfile;

    myfile.open(argv[1]);

    for(int i = 0; i < 4; i++)

        myfile >> vars[i];

    cout << endl;

    row = vars[0];

    col = vars[1];

    min = vars[2];

    max = vars[3];

    cout << row << endl;

    cout << col << endl;

    cout << min << endl;

    cout << max << endl;

    ofstream myfile2;

    myfile2.open(argv[2]);

    myfile2 << row;

    myfile2 << ' ';

    myfile2 << col;

    myfile2 << ' ';

    myfile2 << "0 1";

    myfile2 << endl;

    int \*\*data = new int\*[row];

    for (int i = 0; i < row; ++i)

        data[i] = new int [col];

    for (int i = 0; i < row; i++){

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

            myfile >> data[i][j];

            if (data[i][j] > 0){

                myfile2 << data[i][j];

                myfile2 << ' ';

            }

            else {

                myfile2 << ' ';

                myfile2 << ' ';

            }

        }

        myfile2 << endl;

    }

    for (int i = 0; i < row; i++){

        delete data[i];

    }

    delete[] data;

    myfile.close();

    myfile2.close();

    return 0;

}

Output







