CS 323\_33 Programming Language: C++

Mock Final 1 Selection Sort

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**Source code**

#include <iostream>

#include <string>

#include <fstream>

using namespace std;

class selectionSort{

public:

int\* Ary;

int N;

void getN(ifstream& inFile){

int count = 0;

while(!inFile.eof()){

int value;

inFile >> value;

count++;

}

N = count;

inFile.close();

}

void loadAry(ifstream& inFile){

Ary = new int[N];

int input;

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

inFile >> input;

Ary[i] = input;

}

}

void selectionSorting(){

int position = 0;

while(position < N){

for(int i = position+1; i < N; i++){

if(Ary[i] < Ary[position]){

int temp = Ary[position];

Ary[position] = Ary[i];

Ary[i] = temp;

}

}

position++;

}

}

void printAry(ofstream& outFile){

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

outFile << Ary[i] << endl;

}

}

};

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

ifstream inFile(argv[1]);

ofstream outFile(argv[2]);

selectionSort S;

S.getN(inFile);

inFile.open(argv[1]);

S.loadAry(inFile);

S.selectionSorting();

S.printAry(outFile);

inFile.close();

outFile.close();

return 0;

}

**outFile**

A screenshot of a cell phone

Description automatically generated