Class: CV Name: Loyd Flores Project: Project 0B Project name: Java project submission exercise Language: C++ Due Date: 9/6/2024 Friday before midnight Submit date: 09/03/2024 \_\_\_\_\_ Top level algorithm steps \_\_\_\_\_ Step 0: inFile ← open from argv [1] outFile ← open from argv [2] Step 1: numOfRows ← read from inFile. Step 2: Person people [] ← new Person[numOfRows]; // create an array of Persons; Step 3: index ← 0 //set initial counter to 0 Step 4: name ← read from inFile. Step 5: age ← read from inFile Step 6: p ← new Person (name, age) // create the Person object Step 7: people [index++] = p; // save the person in the array Step 8: repeat steps 4 to 7 while index < numOfRows Step 9: For each person in the people array, print the person. Step 10: delete all allocations Step 11 : close inFile, outFile.

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Illustration: None

```
#include <iostream>
#include <fstream>
#include <string>
using namespace std;
class Person {
       int age;
        Person(string name, int age){
            this->age = age;
       void printPerson(ofstream & ofile) {
            ofile << name << " is " << age << " years old. \n";
}; // end class Person
int main(int argc, char** argv){
    if(argc != 3) {
file and output file n";
        exit(1);
    ifstream inFile (argv[1]); // input file
    if(!inFile.is open()){
       exit(1);
    ofstream outFile(argv[2]);
    if (!outFile.is open()){
```

```
int numOfPeople;
inFile >> numOfPeople;
outFile << "*** There are " << numOfPeople << " people ***" << "\n";</pre>
Person** people = new Person*[numOfPeople];
while (index < numOfPeople) {</pre>
    inFile >> Tname;
    inFile >> Tage;
   Person* p = new Person(Tname, Tage);
    people[index++] = p;
for(int index = 0; index < numOfPeople; index++){</pre>
    people[index] -> printPerson(outFile);
for(int index = 0; index < numOfPeople; index++){</pre>
    delete people[index];
delete[] people;
inFile.close();
outFile.close();
exit(0);
```

**************************************
4
Emily 24
Ben 29
Mark 22
Lisa 17
**************************************
*** There are 4 people ***
Emily is 24 years old.
Ben is 29 years old.
Mark is 22 years old.
Lisa is 17 years old.