Main. Java

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Coder Tester lab  
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\*/  
  
  
//Status update for 7 October 2020  
/\*  
Coder sorting is complete, just got to do testing and then let user pick choice  
 \*/  
  
import* java.io.BufferedReader;  
*import* java.io.File;  
*import* java.io.FileReader;  
*import* java.io.IOException;  
*import* java.util.ArrayList;  
*import* java.util.*Comparator*;  
*import* java.util.*List*;  
*import* java.util.Scanner;  
*import* java.util.concurrent.TimeUnit;  
  
*public class* Main {  
 *// Arrays to see if the randomindex has already been used  
 static boolean*[] *usedCoder* = *new boolean*[33];  
 *static boolean*[] *usedTester* = *new boolean*[33];  
  
 *public static void* main(String[] args) {  
 *//printing out to make sure the values are starting out as false  
 // initialize variables and creating array list* File file;  
 *//String TempeoryStorage is for coders first* String tempeoryStorage = *null*;  
 *//String testersTemperory is for testers first* String testersTempeory = *null*;  
  
 *List* <String> studentPairsCodersFirst = *new* ArrayList<>();  
 *List* <String> studentPairsTestersFirst = *new* ArrayList<>();  
 Scanner in = *new* Scanner(System.*in*);  
 *List*<String> allStudents = *new* ArrayList<>();  
  
  
  
  
 BufferedReader br;  
 *int* numOfStudents;  
  
  
 *//Reading file into an array using bufferreader  
  
 try* {  
 file = *new* File("C:\\Users\\mpari\\Documents\\coding projects\\Java\\Coder Tester Software Design Program\\src\\SD\_ClassList.txt");  
 br = *new* BufferedReader(*new* FileReader(String.*valueOf*(file)));  
 *while* (br.ready()) {  
 allStudents.add(br.readLine());  
 }  
 } *catch* (IOException e) {  
 System.*out*.println(e.getMessage());  
 }  
  
  
 *//Asking user for how many students do they want* System.*out*.println("How many students should be in pairs?");  
 numOfStudents = in.nextInt();  
 *if* (numOfStudents > allStudents.size() || numOfStudents <= 0) {  
 System.*out*.println("Sorry, the amount of students you inputted is larger than the students" +  
 " in the file. Input a different number.");  
 numOfStudents = in.nextInt();  
 }  
  
 System.*out*.println("Do you want your list to be sorted coders first or testers first? Note: Choose" +  
 " Testers first if you want it sorted by testers. And vice versa.");  
  
 String codersOrTesters = in.next();  
  
 *//This if statement is coders first  
 if* (codersOrTesters.toLowerCase().equals("coders")) {  
  
 *int* i = 0;  
 *while* (i != numOfStudents) {  
 i++;  
  
 *// method for coders first* tempeoryStorage = ((*studentsAllCoders*(allStudents, numOfStudents)));  
 studentPairsCodersFirst.add(tempeoryStorage);  
 }  
  
  
  
 studentPairsCodersFirst.sort(*Comparator*.*comparing*(String::toString));  
 *//Formatting output* String firstLine = String.*format*("%20S %20S ", " Coders", "Testers");  
 System.*out*.println(firstLine);  
 String secondLine = String.*format*("%20S %20S ", " Last Name", " Last Name");  
 System.*out*.println(secondLine);  
 System.*out*.println("-----------------------------------------------");  
 *//for loop to run for amount of coders and then also to split the string and output  
 for* (*int* P = 0; P < studentPairsCodersFirst.size(); P++) {  
 String value = studentPairsCodersFirst.get(P);  
 String[] split = value.split(",");  
 String names = String.*format*("%20S %20S ", split[0], split[1]);  
 System.*out*.println(names);  
 }  
 *try* {  
 TimeUnit.*SECONDS*.sleep(10);  
 } *catch* (InterruptedException e) {  
 e.printStackTrace();  
 }  
 }  
 *else* {  
 *int* i = 0;  
 *while* (i != numOfStudents) {  
 i++;  
  
 *// method for testers first* testersTempeory = ((*studentsAllTesters*(allStudents, numOfStudents)));  
 studentPairsTestersFirst.add(testersTempeory);  
 }  
  
  
  
 studentPairsTestersFirst.sort(*Comparator*.*comparing*(String::toString));  
 *//Formatting output but this time testers first* System.*out*.println("Printing testers first now. Will let user know about change.");  
 String firstLine = String.*format*("%20S %20S ", " Testers", "Coders");  
 System.*out*.println(firstLine);  
 String secondLine = String.*format*("%20S %20S ", " Last Name", " Last Name");  
 System.*out*.println(secondLine);  
 System.*out*.println("-----------------------------------------------");  
 *//for loop to run for amount of coders and then also to split the string and output  
 for* (*int* P = 0; P < studentPairsTestersFirst.size(); P++) {  
 String value = studentPairsTestersFirst.get(P);  
 String[] split = value.split(",");  
 String names = String.*format*("%20S %20S ", split[0], split[1]);  
 System.*out*.println(names);  
 }  
 *try* {  
 TimeUnit.*SECONDS*.sleep(10);  
 } *catch* (InterruptedException e) {  
 e.printStackTrace();  
 }  
 }  
 }  
  
 *private static* String studentsAllTesters(*List*<String> allStudents, *int* numOfStudents) {  
 *while* (*true*) {  
 *//common variable for randomindex  
 int* studentsAllLength = allStudents.size();  
 *//random index and inputting arraylist value into a string  
 int* randomIndex = (*int*) (Math.*random*() \* studentsAllLength);  
 *int* randomIndex2 = (*int*) (Math.*random*() \* studentsAllLength);  
 *if* ((!*usedTester*[randomIndex] && !*usedCoder*[randomIndex2]) && randomIndex != randomIndex2) {  
  
 String last = allStudents.get(randomIndex) + "," + allStudents.get(randomIndex2);  
 *usedCoder*[randomIndex2] = *true*;  
 *usedTester*[randomIndex] = *true*;  
 *return* last;  
 }  
 }  
 }  
  
 *public static* String studentsAllCoders(*List*<String> allStudents, *int* numOfStudents) {  
 *while* (*true*) {  
 *//common variable for randomindex  
 int* studentsAllLength = allStudents.size();  
 *//random index and inputting arraylist value into a string  
 int* randomIndex = (*int*) (Math.*random*() \* studentsAllLength);  
 *int* randomIndex2 = (*int*) (Math.*random*() \* studentsAllLength);  
 *if* ((!*usedTester*[randomIndex] && !*usedCoder*[randomIndex2]) && randomIndex != randomIndex2)  
 {  
 String last = allStudents.get(randomIndex2) + "," + allStudents.get(randomIndex);  
 *usedCoder*[randomIndex2] = *true*;  
 *usedTester*[randomIndex] = *true*;  
 *return* last;  
 }  
 }  
 }  
}

C:\Users\mpari\.jdks\liberica-14.0.2\bin\java.exe -javaagent:C:\Users\mpari\AppData\Local\JetBrains\Toolbox\apps\IDEA-U\ch-0\202.7660.26\lib\idea\_rt.jar=60063:C:\Users\mpari\AppData\Local\JetBrains\Toolbox\apps\IDEA-U\ch-0\202.7660.26\bin -Dfile.encoding=UTF-8 -classpath "C:\Users\mpari\Documents\coding projects\Java\Coder Tester Software Design Program\out\production\Coder Tester Software Design Program" Main

How many students should be in pairs?

30

Do you want your list to be sorted coders first or testers first? Note: Choose Testers first if you want it sorted by testers. And vice versa.

testers

Printing testers first now. Will let user know about change.

TESTERS CODERS

LAST NAME LAST NAME

-----------------------------------------------

BALUSAMY MUNOT

BLANKE IBRAHIM

BORKAR ELIAS

CHITNEEDI BORKAR

CHOI PARRISH-LEWIS

COUTTS FAVA

CRIMI GUPTA

DALAL CRIMI

ELIAS COUTTS

FAVA KUMARAN

GANDHI GLADSTONE

GLADSTONE PARIKH

GUPTA LUCIANO

HUANG REVANKAR

KIM BALUSAMY

KOROLEV CHOI

KUMARAN PATEL

LUCIANO BLANKE

MUNOT PARK

MUZYKA HUANG

PAGLINGAYEN GANDHI

PARIKH MUZYKA

PARK PRZESTRZELSKI

PARRISH-LEWIS PAGLINGAYEN

PATEL SZACILLO

PRZESTRZELSKI KOROLEV

RABTZOW CHITNEEDI

REVANKAR SONI

SONI RABTZOW

SZACILLO DALAL

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