*import* java.util.\*;  
*import* java.io.\*;  
*import* java.lang.Math;  
  
*public class* Main {  
 *static* Boolean[] *beenTester* = *new* Boolean[33];  
 *static* Boolean[] *beenCoder* = *new* Boolean[33];  
 *public static void* main(String[] args) {  
 File file;  
 Scanner reply;  
 Scanner in = *new* Scanner(System.*in*);  
 *List*<String> allStudents = *new* ArrayList<>();  
 *List*<String> blockOneStudents = *new* ArrayList<>();  
 *List*<String> blockTwoStudents = *new* ArrayList<String>();  
  
 String[] studentsAll = allStudents.toArray(*new* String[33]);  
 String[] block1Students = blockOneStudents.toArray(*new* String[20]);  
 String[] block2Students = blockTwoStudents.toArray(*new* String[50]);  
  
 String fileReader;  
 String matchStudents;  
 *int* arrayPlace = 0;  
 *int* numOfStudents;  
  
 *try* {  
 file = *new* File("C:\\Users\\mpari\\Documents\\coding projects\\Java\\Coder Tester Software Design Program\\src\\SD\_ClassList.txt");  
 reply = *new* Scanner(file);  
  
 *while* (reply.hasNext()) {  
 fileReader = reply.next();  
 *if* (fileReader.substring(0, 1).equals("1")) {  
 block1Students[arrayPlace] = fileReader;  
 }  
  
 *if* (fileReader.substring(0, 1).equals("2")) {  
 block2Students[arrayPlace - block1Students.length] = fileReader;  
  
 }  
 studentsAll[arrayPlace] = fileReader;  
 arrayPlace++;  
 }  
 } *catch* (FileNotFoundException e) {  
 System.*out*.println(e.getMessage());  
 }  
  
 System.*out*.println("Do you want to match coders and testers within a certain block or the entire class?");  
 System.*out*.println("Options: 1, 2, or All");  
 matchStudents = in.next();  
  
 *if* (matchStudents.equals("1")) {  
 System.*out*.println("How many block 1 students should be in pairs?");  
 numOfStudents = in.nextInt();  
 *//using i in all the if loops so that way it can be used as a counter and dont need to change  
 //variable names all the time  
 int* i = 0;  
 *while* (i != numOfStudents) {  
 i++;  
 String pairs = *block1Students*(block1Students, numOfStudents);  
 System.*out*.println(pairs);  
 }  
 } *else if* (matchStudents.equals("2")) {  
 System.*out*.println("How many block 2 students should be in pairs?");  
 numOfStudents = in.nextInt();  
 *int* i = 0;  
 *while* (i != numOfStudents) {  
 i++;  
 String pairs = *block2Students*(block2Students, numOfStudents);  
 System.*out*.println(pairs);  
 }  
 } *else if* (matchStudents.equalsIgnoreCase("All")) {  
 System.*out*.println("How many students should be in pairs?");  
 numOfStudents = in.nextInt();  
 *int* i = 0;  
 *while* (i != numOfStudents) {  
 i++;  
 String pairs = studentsAll(studentsAll, numOfStudents);  
 System.out.println(pairs);  
 }  
 }  
 }  
  
 *public static* String studentsAll(String[] studentsAll, *int* numOfStudents) {  
 *int* randomIndex = (*int*) (Math.random() \* studentsAll.length);  
 String randomElement = studentsAll[randomIndex];  
 *return* randomElement;  
 }  
  
 *public static* String block2Students(String[] block2Students, *int* numOfStudents) {  
 *int* randomIndex = (*int*) (Math.random() \* block2Students.length);  
 String randomElement = block2Students[randomIndex];  
 *return* randomElement;  
 }  
  
 *public static* String block1Students(String[] block1Students, *int* numOfStudents) {  
 *while* (*true*) {  
 *int* randomIndex = (*int*) (Math.random() \* block1Students.length);  
 String randomElement = block1Students[randomIndex];  
 *int* randomIndex2 = (*int*) (Math.random() \* block1Students.length);  
 String randomElement2 = block1Students[randomIndex2];  
 *if* (randomElement != randomElement2 || block1Students[randomIndex] == *null* || block1Students[randomIndex2] == *null* || !beenTester[randomIndex2] || !beenCoder[randomIndex]) {  
 String last = randomElement + " " + randomElement2;  
 beenCoder[randomIndex] = *true*;  
 beenTester[randomIndex2] = *true*;  
 *return* last;  
 }  
 }  
 }  
}