

Instructions for using the Tester 2.0 Program

Version Change:

Sorry for the mistakes in the first testing program. The problems were that I'm using java sort method and this method can't get any null objects. Some assignments did return in the string array one or more null object and when they were tested, the tester has crashed. Also there was one more problem, the grade was supposed to be by similarity of the arrays but because of a little mistake I made the grade was by identity so I fixed that problem too.

Details about the zip file:

the zip contains the DB file named testfile, this is a big file with 100K points.

The file also contain 3 expected string array for the test named test#.dat (replace # with the test number)

if you wan to check results, print them In a sorted way and look line by line of the files (or use any comparing program , found online).

to use the tester program follow this instructions:

1. download tester.zip file from the DS082 website.
2. Unzip all the files (should contain Tester.java testfile.dat test1.dat test2.dat test3.dat) into the same directory where your GUI.java file is. (**If you are using any packages in your code please read (*) below**).
3. Open cmd / command through Start > Run > cmd
4. browse to the directory where you have unzipped the files.
5. Run `javac *.java`. You should get no errors but maybe you will get some warnings
6. Run this 3 lines:
`java Tester testfile.dat 1 test1.dat log.dat test1`
`java Tester testfile.dat 2 test2.dat log.dat test2`
`java Tester testfile.dat 3 test3.dat log.dat test3`
7. after running the lines and if no errors appeared on screen you should have a log.dat file on the same directory that contains 3 lines, one for each test.
test1=20!
test2=20!
test3=20!
8. Note: if you are planning on rerunning the check please delete the log.dat file first !

Alternative method for using the Tester program .

You can also use the Tester program using Jcreator / Eclipse by adding it to your project directory and change the main method to the following:

```
public static void main(String[] args)
{
    String input = "testfile.dat";
    String output = "log.dat";
    String[] prefixStr = {"test1", "test2", "test3"};
    String[] ourResults = {"test1.dat", "test2.dat", "test3.dat"};

    for (int i=0;i<3;i++)
    {
        Tester tester = new Tester(input);
        tester.ourAnswer = tester.readFromFile(ourResults[i]);

        int grade = tester.runTests(i+1);

        tester.writeToFile(output, prefixStr[i], grade);

        tester.studentGUI.dispose();
    }
}
```

Note: Even if you are using the alternative method and you have packages in your code you will need to read (*) and follow the instructions there.

(*) - If you are using packages in your code, that could be the reason why your program failed in the run. If indeed this is the case remove all packages and put all your files in the same directory, then step 5 should run perfectly. After fixing this problem please send an Email to mlon@cs.bgu.ac.il with this Subject: DS082 ASS4 <fix packages>, write in the message your group id and attach the fixed zip file. Please be advised that checks will be made to see that the only changes are packages / imports. In the case of **any** other change the reassigned assignment will not be checked and the grade will **Zero** !

FAQ:

1. If you get a stackoverflow exception in your code that means you have an infinite loop or a recursive call.
2. The eclipse IDE creates a default package for you. Thats ok and its not under th (*) note
3. the tester program can't give you the mistakes in the code ! It can give you the grade you got and in the case of an exception it will catch it and print it !