

Recursion and files

Extra credit assignment (worth 5 points on our upcoming exam)

Write a method, `printLinesInArray`, that takes three parameters: a `BufferedReader`, a `PrintWriter` and a sorted array of distinct integers. The method will write to the output (with the `PrintWriter`) the lines of the input (read with the `BufferedReader`) whose numbers are listed in the array.

For instance if the array contains the values `{-10, 18, 24, 55, 133}`, and the file read by the `BufferedReader` has 100 lines

line 1
line 2
...
line 100

then the `PrintWriter` should write to the output the lines 18, 24 and 55 since they all appear in the array. The values -10 and 133 are ignored since they do not match any line number in the file.

Your solution should use recursion ONLY. No loops are allowed. Write your solution in this file: .

<http://flepeint.ccfaculty.org/java143/ClassExamples/RecursionAndFiles.java>

You can test your solution by running the unit test in that same file. This assignment is pass/fail. To pass, your method must use recursion and pass the test .

This is an individual assignment. You may discuss ideas together. However, do NOT share your code.

When done, turn in your work using this link (due by 11 pm by the due date given on the class calendar)

<http://flepeint.ccfaculty.org/cgi-bin/java143/turninForm.cgi?hw=9>

Good luck!