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Project Description

This program takes integer data from an input txt file, sort it in ascending order and print the sorted values on an output txt file along with the execution time it took to sort the file. Both the input file and output files are passed in to the main method as command line parameters.

There are a total of 6 sorting methods, the program will therefore print the results of each sorting method onto a separate output txt file. Hence for each input file that is passed in, the program will generate or print onto 6 output files, one for each sorting method.

Please make sure that the data in the input file follows the following format:

```
1
2
3
4
5
.
.
.
n
```

Where n represents the total number of integers in the file.

Please also make sure that there are no empty lines between data.

Java Version: 1.8.0_201 **IDE used:** NetBeans 8.2

Compile instructions:

On command/ terminal, change directory to the location where the project file is located. For example if the project file is located in Documents in a folder named JHU

For MacOS terminal: `cd ~/Documents/JHU`

After changing directory to where the files are located, you can compile the files by typing in the following command:

```
Javac Main.java
```

The above command compiles the java files of the program into class files. After the file is compiled, enter command line arguments in the following format:

```
Java Main input output
```

Input and output can be a text file or it can be a directory to where the text file is located. The first argument “input” and the second argument “output” must be separated by a space.

Example: java Main ~/Documents/"Study Material for JHU"/"data structure"/input.txt
~/Documents/"Study Material for JHU"/"data structure"/output.txt