

AP COMPUTER SCIENCE – HOMEWORK #4

Write a class `NameSort` which sorts the list of the president's names (provided in `presidents.txt`) alphabetically by last name, then by first name, and then by middle name or initial (if present). A good place to start would be to use and modify the class `MinSortStub`.

You should:

- 1) Pass in the input and output file names through `String [] arg`, *i.e.*, invoke the program with

```
java NameSort inputFileName outputFileName
```

and `main` should check if the invocation uses the correct number of arguments, and if not, then print something like

```
Usage:
```

```
java NameSort inputFileName outputFileName
```

and return.

- 2) Remove the static methods `openBR`, `readLine`, `close` and `openPW`.
- 3) Change method `loadFileAsIntArray` to `loadFileAsStringArray`, and use a `FileInput` object to initialize a private field `private String [] names`.
- 4) Modify method `sortList` to sort `String`'s instead of `int`'s. A good way to do this is, from each name, have the program create a string which can be used in the `String compareTo (String)` method of class `String`. For example,

```
from George Washington create WashingtonGeorge
```

```
from George W Bush      create BushGeorgeW
```

etc.

- 5) Modify method `printSort` to use a `FileOutput` object. Your output file should contain

```
John Adams
```

```
John Quincy Adams
```

```
Chester Arthur
```

etc.