**ConsoleInput**

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+ ConsoleInput(): ConsoleInput
+ getInput(): void

**ConsoleOutput**

---

+ ConsoleOutput(): ConsoleOutput
+ produceOutput(): void

**PathChecker**

---

+ PathChecker(): PathChecker
+ getValidPath(Input input): String

*Input*

---

+ Input(): Input
*+ getInput(): void*

*Output*

---

+ Output(): Output
*+ produceOutput(): void*

**KeywordSearcher**

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+ Searcher(): Searcher
+ searchInArrayList(arrayList: ArrayList<Pair>, word: String): ArrayList<Pair>

**MainDriver**

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+ main(): void

*FileManager*

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+ FileOpener(): FileOpener
# *openFile(path: String): boolean*
+ *convertFileToStringArray(): String[]*

**TextFileManager**

---

- bufferedReader: BufferedReader

---

+ TextFileOpener(): TextFileOpener
# openFile(path: String): boolean
+ convertFileToStringArray(): String[]

**PairArrayListSorter**

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+ PairArrayListSorter(): PairArrayListSorter
*+ sort(arrayList: ArrayList<Pair>): ArrayList<Pair>*

**Pair**

---

+ string: String
+ index: int

---

+ Pair(string String, index int): Pair()
+ getFirstLetter(): Character
+ getFirstWord(): String
+ equals(otherPair: Pair): boolean

**CircularShifter**

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+ CircularShifter(): CircularShifter
+ circularShift(array: String[]): ArrayList<Pair>

**AlphabeticalPairArrayListSorter**

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+ AlphabeticalPairArrayListSorter(): AlphabeticalPairArrayListSorter
+ sort(arrayList: ArrayList<Pair>): ArrayList<Pair>