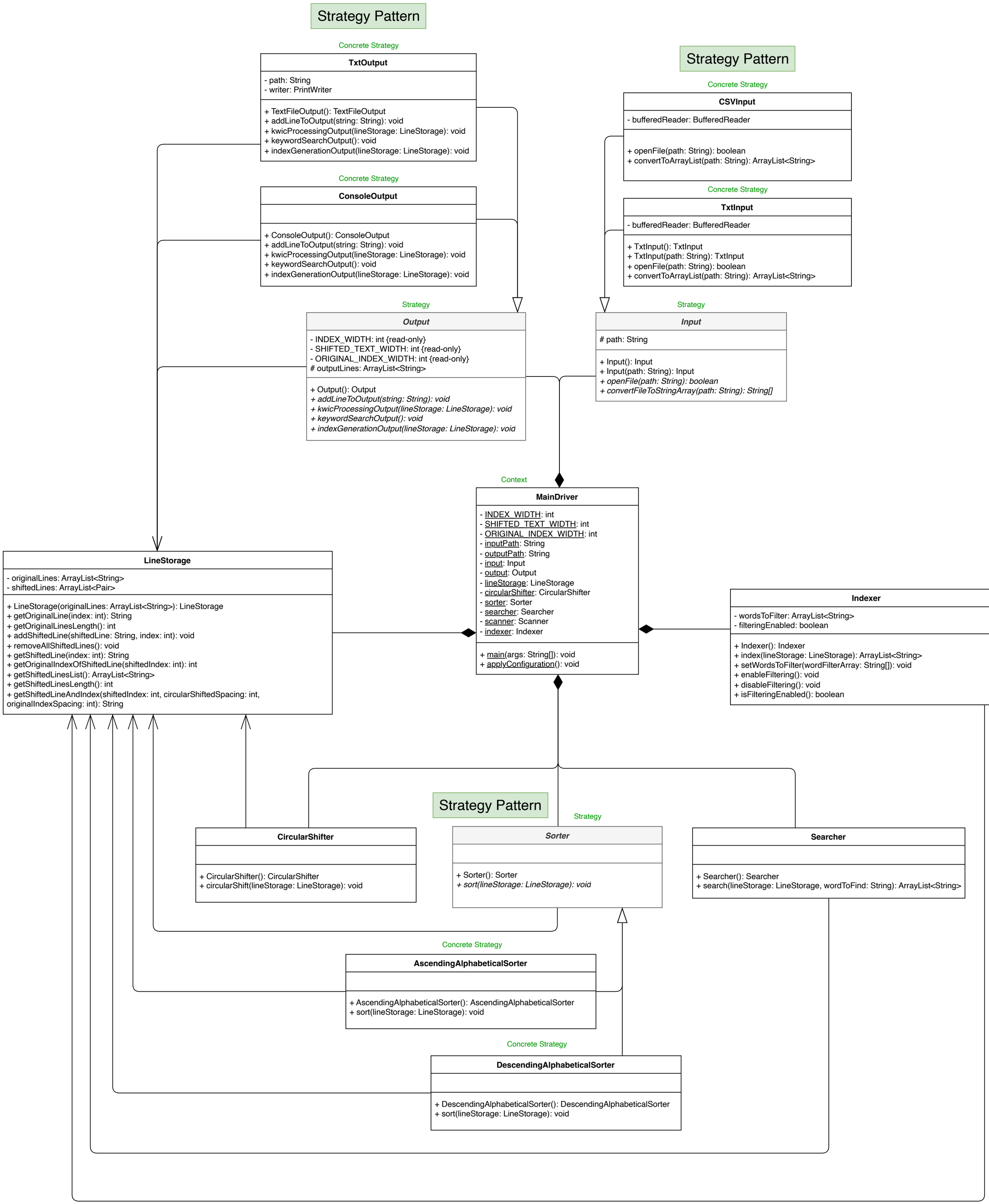
Strategy Pattern
Concrete Strategy
TxtOutput
- path: String
- writer: PrintWriter
+ TextFileOutput(): TextFileOutput
+ addLineToOutput(string: String): void
+ kwicProcessingOutput(lineStorage: LineStorage): void
+ keywordSearchOutput(): void
+ indexGenerationOutput(lineStorage: LineStorage): void
Concrete Strategy
ConsoleOutput
+ ConsoleOutput(): ConsoleOutput
+ addLineToOutput(string: String): void
+ kwicProcessingOutput(lineStorage: LineStorage): void
+ keywordSearchOutput(): void
+ indexGenerationOutput(lineStorage: LineStorage): void
Strategy
Output
- INDEX_WIDTH: int {read-only}
- SHIFTED_TEXT_WIDTH: int {read-only}
- ORIGINAL_INDEX_WIDTH: int {read-only}
# outputLines: ArrayList<String>
+ Output(): Output
+ addLineToOutput(string: String): void
+ kwicProcessingOutput(lineStorage: LineStorage): void
+ keywordSearchOutput(): void
+ indexGenerationOutput(lineStorage: LineStorage): void
Strategy Pattern
Concrete Strategy
CSVInput
- bufferedReader: BufferedReader
+ openFile(path: String): boolean
+ convertToArrayList(path: String): ArrayList<String>
Concrete Strategy
TxtInput
- bufferedReader: BufferedReader
+ TxtInput(): TxtInput
+ TxtInput(path: String): TxtInput
+ openFile(path: String): boolean
+ convertToArrayList(path: String): ArrayList<String>
Strategy
Input
# path: String
+ Input(): Input
+ Input(path: String): Input
+ openFile(path: String): boolean
+ convertFileToStringArray(path: String): String[]
Context
MainDriver
- INDEX_WIDTH: int
- SHIFTED_TEXT_WIDTH: int
- ORIGINAL_INDEX_WIDTH: int
- inputPath: String
- outputPath: String
- input: Input
- output: Output
- lineStorage: LineStorage
- circularShifter: CircularShifter
- sorter: Sorter
- searcher: Searcher
- scanner: Scanner
- indexer: Indexer
+ main(args: String[]): void
+ applyConfiguration(): void
LineStorage
- originalLines: ArrayList<String>
- shiftedLines: ArrayList<Pair>
+ LineStorage(originalLines: ArrayList<String>): LineStorage
+ getOriginalLine(index: int): String
+ getOriginalLinesLength(): int
+ addShiftedLine(shiftedLine: String, index: int): void
+ removeAllShiftedLines(): void
+ getShiftedLine(index: int): String
+ getOriginalIndexOfShiftedLine(shiftedIndex: int): int
+ getShiftedLinesList(): ArrayList<String>
+ getShiftedLinesLength(): int
+ getShiftedLineAndIndex(shiftedIndex: int, circularShiftedSpacing: int, originalIndexSpacing: int): String
Indexer
- wordsToFilter: ArrayList<String>
- filteringEnabled: boolean
+ Indexer(): Indexer
+ index(lineStorage: LineStorage): ArrayList<String>
+ setWordsToFilter(wordFilterArray: String[]): void
+ enableFiltering(): void
+ disableFiltering(): void
+ isFilteringEnabled(): boolean
Strategy Pattern
CircularShifter
+ CircularShifter(): CircularShifter
+ circularShift(lineStorage: LineStorage): void
Strategy
Sorter
+ Sorter(): Sorter
+ sort(lineStorage: LineStorage): void
Searcher
+ Searcher(): Searcher
+ search(lineStorage: LineStorage, wordToFind: String): ArrayList<String>
Concrete Strategy
AscendingAlphabeticalSorter
+ AscendingAlphabeticalSorter(): AscendingAlphabeticalSorter
+ sort(lineStorage: LineStorage): void
Concrete Strategy
DescendingAlphabeticalSorter
+ DescendingAlphabeticalSorter(): DescendingAlphabeticalSorter
+ sort(lineStorage: LineStorage): void