Task 1

"CSV Sorter" is a CLI application that allows sorting of its input presented as CSV-text.

Technical details

Required features:

- 1. The application runs as a CLI application.
- 2. It reads STDIN line by line. The end of the input is an empty line.
- 3. Each line is a list of comma-separated values (CSV). Each value is considered as a piece of text. The number of values is the same in each line.
- 4. The application sorts all lines alphabetically by the first value in each line using the Tree Sort algorithm.
- 5. The application prints the result immediately, when the user ends to enter input text (presses <Enter> at a new line).
- 6. The application supports options:

Option usage	Meaning
-i file-name	Use a file with the name file-name as an input.
-o file-name	Use a file with the name file-name as an output.
-h	The first line is a header that must be ignored during sorting but
	included in the output.
-f N	Sort input lines by value number N.
-r	Sort input lines in reverse order.

Optional features (not required but appreciated):

1. Add the ability to use a second algorithm for sorting based on the Red-black tree. Accordingly, add one more option -a with possible values 1 or 2, which chooses Tree Sort or Red-black tree algorithm to use. By default, the application uses the Tree Sort algorithm.