fileSort.c

DESCRIPTION

fileSort reads comma-separated alphanumeric data from a file and sorts it through insertion or quicksort methods. The sorted list is printed back to the user.

ARGUMENTS

fileSort takes in two arguments to run:

- 1. A sortFlag to indicate which sorting algorithm the program will run. '-i' indicates insertion sort, and '-q' indicates quicksort. Inputting any other argument will cause a fatal error.
- 2. The name of the file to be read. The file path should be local (relative to the location of the program). If the file does not exist, then a fatal error will be triggered.

FILE FORMAT

- The file should contain data consisting of numbers OR strings of lowercase letters
- Each piece of data should be separated by a comma ','
- Any and all whitespace characters will be ignored (spaces,tabs,newlines).
- Any empty tokens will be sorted to the beginning of the list. Unless the empty token is the last token; then it will be ignored.

RETURN VALUE

- 1 is returned on a successful sort
- -1 is returned if an error has terminated the program.