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1  FILESORT
2
3  NAME
4    fileSort - reads a file, and outputs sorted values
5
6  SYNOPSIS
7    fileSort -i | -q FILENAME
8
9  DESCRIPTION
10   Reads comma delimited tokens from a file and stores them in a doubly linked list.
11   It then sorts the tokens using the specified sorting method and outputs the values.
12   Supported sorting methods are insertion sort and quick sort.
13
14   - File can only contain integer tokens or alpha tokens, and cannot be mixed
15   - if mixed, integers will be treated as strings
16   - Whitespaces are removed
17   - Integers may have a leading '-' (minus sign). Otherwise, minus is an illegal character.
18   - Any other characters besides alphanumerics, commas, and whitespaces are illegal characters.
19   - Empty tokens ('',') are treated as empty strings, except at the end of the file where it is ignored.
20   - Integers can't exceed the maximum size of an integer
21   - Text file can be any size, up to maximum memory
22   - Tokens can be any size, up to maximum memory
23   - Uses a doubly linked list which can store either integer or char * tokens
24
25  OPTIONS
26    -i Sort using Insertion Sort.
27    -q Sort using Quick Sort.
28
29  EXIT STATUS
30   Returns EXIT_FAILURE(1) on fatal exceptions.
31   Fatal exceptions include:
32     - Incorrect number of arguments
33     - Invalid sorting type
34     - File read error including missing file, no access, etc
35     - Out of memory errors
36     - Illegal character (Numeric and alpha only)
37     - Integer token too large
38     - No valid tokens in file
39
40   Returns EXIT_SUCCESS(0) on success.
41
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