reverse.c

My implementation of the reverse utility in C. It has support for all three of the requirements in the assignment.

- ./reverse
  Reads from stdin and writes reversed lines to stdout.

- ./reverse input.txt
  Reads from input.txt and prints the reversed lines to stdout

- ./reverse input.txt output.txt
  Reads from input.txt and writes the reversed lines to output.txt

The implementation uses getline() to safely read arbitralily long lines, stores eac line on a linked list and then prints the list to produce the reversed output. The program checks the error cases as required by the assignment and prints the exact error messages before exiting with code 1.

Repository URL:

https://github.com/LUTVeeti/K-ytt-j-rjestelm-t-ja-systeemiohjelmointi-projektit.git

Complile:

Gcc –std=c11-Wall –Wextra –o reverse reverse.c

Examples:

```
≡ output.txt
  1    a file
  2    is
  3    this
  4    hello
```

Error cases:

```
⊗ veethicc@VeetinTykki:~/systeemiohjelmointi$ ./reverse a b c
  usage: reverse <input> <output>
```

```
⊗ veethicc@VeetinTykki:~/systeemiohjelmointi$ ./reverse input.txt input.txt
  Input and output file must differ
```

```
⊗ veethicc@VeetinTykki:~/systeemiohjelmointi$ ./reverse nonexistant.txt
  error: cannot open file 'nonexistant.txt'
```