

Design Document: Asg0
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1 Goals

The goal of this program is to perform functionality similar to the UNIX cat command. The program copies data from the files specified on the command line to standard output in the order of files.

If - is given as the file name, the program will use standard input for that file. If no file is specified on the command line, the program will copy the standard input to standard output. If the program runs into an error, the program prints an error message to standard error and skip the file.

2 Design

The program first does initialization, processing arguments, and then tries to access each file specified on the command line.

If there is no parameter entered, the program will do the same as reading a '-' parameter:

- Read from STDIN byte by byte and store the input in a buffer.

- Write to the STDOUT what was stored.

- Stop reading when there's no more input.

If file parameters are entered:

- Try to open the file

 - Throw an error if no such file exists

- Read through file byte by byte

- Write to the STDOUT byte by byte

- Stop reading when there is no more byte in the file left.