

Sample Design Document

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1. Goal

The goal of this program is to implement a basic **cat** program, without support for any flags. The code needs to copy data from each of the files specified on the command line to standard output.

2. Assumptions

I'm assuming we need to open the file and copy the content of the files to standard output. If there is no file in the argument, we will ask for the user input and copy it to the standard output.

3. Design

First, check the argument after dog, if there are no more arguments, then we need to read from standard input, then write to standard output. If there are one or more arguments, loop through the arguments. If the file exists, read the file and write it to standard output. If the file doesn't exist, write error message to standard output. If it's a -(dash), read standard input and write it to standard output.

4. Pseudocode

This is the core pseudocode for this program

Procedure Dog

 Declare buffer size of 32

If no file

 Read stdin

```
        Write stdout
    End if
    For every file
        If file == "-"
            Read stdin
            Write stdout
            Continue to next file
        End if
        Open the file
        If file doesn't exist
            Write error message to stdout
            Continue to next file
        End if
        Read the file
        Write to stdout
    End for
    Close file
End procedure
```