Assignment 0: Dog – Design Document

Goal: Replicate the function of 'cat' using the command 'dog'.

Design:
3 cases to consider:

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        Case A – one or multiple arguments after dog:
                -For int i = 0; i < argc; ++i
                -Open argv[i]; If argv[i] does not exist, output
perror() and skip the file
                -LOOP: Read argv[i] for every 32KiB
                       Write the data read from argv[i] to stdout
                       Reset the buffer
                -After the loop, close the file argv[i]
                -Goto the next file

        Case B – '–' argument after dog:
                -Open up stdinput and await for the user input
                -When the user hits return, read the input of the
user
                -The input should be read into a buffer of 32KiB in a
looping fashion:
                        for(bytes=read(0, buffer, bufferSize; bytes >
0; bytes=read()) {
                                write(1, buffer, bufferSize);
                                Reset buffer/Empty buffer
                        }
                -Watch out for the EOF character: if EOF is given,
close the stdin
                -Continue reading the reset of the arguments after
'–' is finished

        Case C – no argument is given after dog:
                -Open up stdinput and await for the user input
                -When the user hits return, read the input(s) with a
buffer
                -Write buffer out to the stdoutput
                -Reset buffer and loop back to read() until EOF
```