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CSE130

Prof. Miller

Writeup: Dog

Answer to write up question:

      The code for handling a file differ from that for handling standard input such that only the parameter 'fd' is different in the function read(). While a file needs to be opened with open(), which will return a file descriptor. The file descriptor for standard input is given by macro STDIN_FILENO. This is an example of abstraction. The user does not need to understand the operations of file descriptors, open(), close(), read(), write(), in order to use printf and other FILE* functions.

Testing:

      I created a test file with size 34kiB. This way I can test that dog,cpp handles files larger than 32kiB. It is set up in such a way that a discrepancy in the file would be easily noticeable. Test cases I made include:

      "./dog "
      "./dog file1"
      "./dog file1 file1"
      "./dog - file1"
      "./dog file1 > file2"
      "./dog file1 > file2 > file3"