

#date:08-31-19

need to make a line file

A buffer is just an array that holds information temporarily to spit out to another location

File -> buffer -> File

```
while(not EOF )  
    read_print_line()
```

So far while doing this I am encountering a segmentation fault, which could arise from opening the files incorrectly.

read_print_line should not need to return anything, so it can just be a void function. It will also need to take in two parameters, input and output, of type FILE*

#date:09-01-19

I have not worked in C very much, so this is a new learning process just for how C works as a language, so I feel like I am falling behind in the design portion of the compiler. Even so, I am determined to learn C to write this project because I want to become a better programmer.

#date:09-02-19

fgets is used for grabbing a file line by line when given a loop to execute in.

fprintf is used for outputting characters to a file from a buffer.

Project 0 completed need to get a newline function working, as well as machines implemented

specification of tokens 3.8

Kleene closure of a language L denoted L^* is the concatenation of L zero or more times to itself

Positive closure of a language L denoted L^+ is the same as Kleene closure but requires one or more concatenations.

#date:09-04-19

On paper design of some of the machines as well as pseudocode to implement into code. The catch all machine is used to recognize as well as unrecognized symbols.

Tokens are defined by creating a struct with a union inside of it.

```
struct lexeme {  
    int tkn;  
    union {  
        int val;  
        char cval;  
    }attr;  
};
```