

Objectives - Thu 3/21/2019

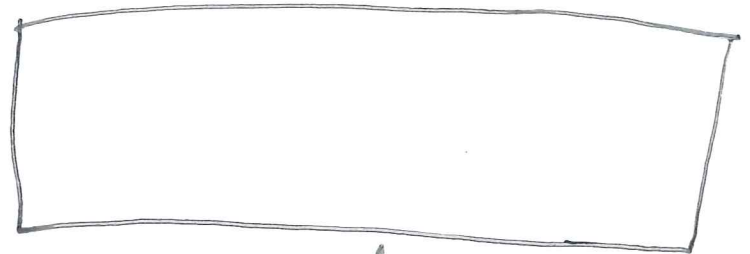
□ Files

- fopen(...)
- fwrite(...)
- fread(...)
- feof(...)
- strerror(...)

Man pages

bash: man

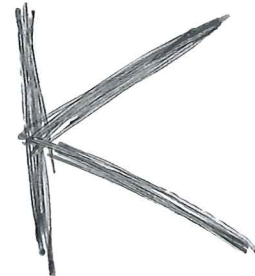
To get out: q
to search: /



command, e.g. ls
library function e.g. fopen
header file

Vim: fopen (-----)

Press



`FILE*` `fp` = `fopen` ("a.txt", "w")

`FILE*` → "file pointer"

`fopen` → open a file

→ filename

→ mode ∈ { "r", "w", "a" }

read ← "r"

write ← "w"

append ← "a"

Don't use an assignment
in a condition

```
if ( fp = fopen ( " " ) ) {
```

~~Boo !!!~~

```
}
```

```
while ( (c = fgetc ( " " )) != EOF ) {
```

`fwrite(a_data, size_one, num_items, fp)`

↑
memory to find data to write

↑
how big is one chunk in bytes

↑↑
how many

↑
a k stream

Copies bytes from memory to disk.

`feof(fp)` returns `(true)`
non-zero
once `fgetc(fp)` (or equivalent)
has tried and failed
to read past the end
of the file.

NOT just saying
you've read the last character.

EOF is returned by fgetc
to indicate end of file.

Use feof(fp),
not EOF to
check for end of file.

Streams

mode

FILE* fp

(depends on arg
to fopen(m))

stdout

"w"

stderr

"w"

stdin

"r"

All can be passed to
fwrite, fread, etc. if mode is right

fprintf(stderr,)

fprintf(stdout,)

fprintf(fp,)

~~2~~ Same for fputs(m);

char: -128 to 127
(signed)

unsigned char: 0 to 255

int: INT_MIN to INT_MAX
 <<< -1 >>> 255

EOF -1

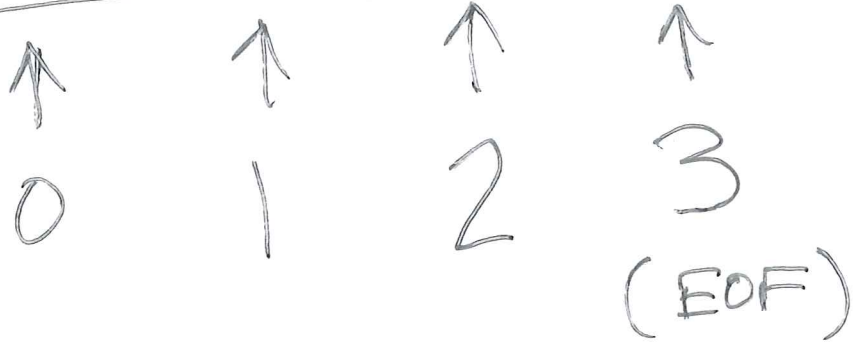
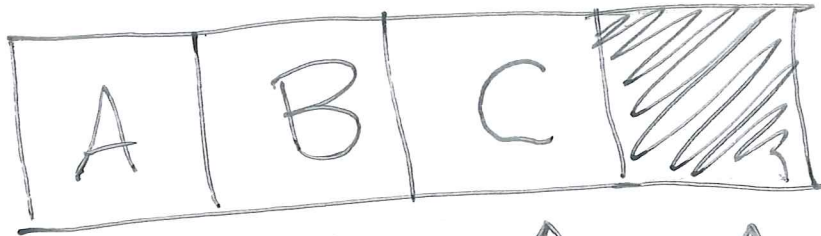
`ftell ()`

Where are we?

`fseek ()`

Go to .
(place in file)

a.txt



EOF is not a character in your file.

ftell () gives the idx to be read next

INIT

while (CONDITION) {

BODY...

NEXT

}

for (INIT ; CONDITION ; NEXT) {

BODY

}