

Mode is Passed as a String

What are the possible modes?

"r" or "rb"*	read only
"w" or "wb"	write only (after deleting)
"a" or "ab"	append (write only, at end)
"r+"/"r+b"/"rb+"	open r/w (read/write)
"w+"/"w+b"/"wb+"	truncate, then r/w
"a+"/"a+b"/"ab+"	append r/w

*The "b" is antiquated notation meaning "binary." On some systems, such as MS-DOS, files opened in non-binary mode changed certain bytes (CR/LF) read/written to the file.

Close a Stream Using `fclose`

What about when one is done with a stream?

Use this function:

```
int *fclose (FILE* stream);
```

- **stream** is the stream to close.
- returns **0** on success, or **EOF (-1)** on failure.

Do NOT leave streams unclosed;
the number allowed for a program is finite!

Discuss Five Kinds of I/O

We'll talk about five kinds of I/O:

1. one character at a time,
2. reading and writing strings,
3. formatted I/O,
4. binary I/O, and
5. formatted "I/O" to/from strings.

Use `fgetc` or `getc` to Read a Character from a Stream

Let's start with one character at a time.

Remember that streams are buffered.

To read a character, use

```
int fgetc (FILE* stream);
```

```
int getc (FILE* stream);
```

`fgetc` is a library function.

`getc` is a preprocessor macro.

What's the difference?