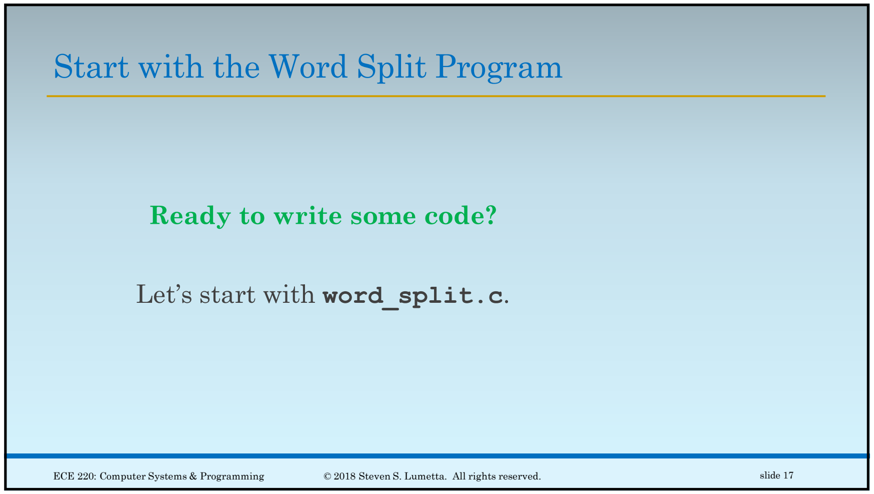
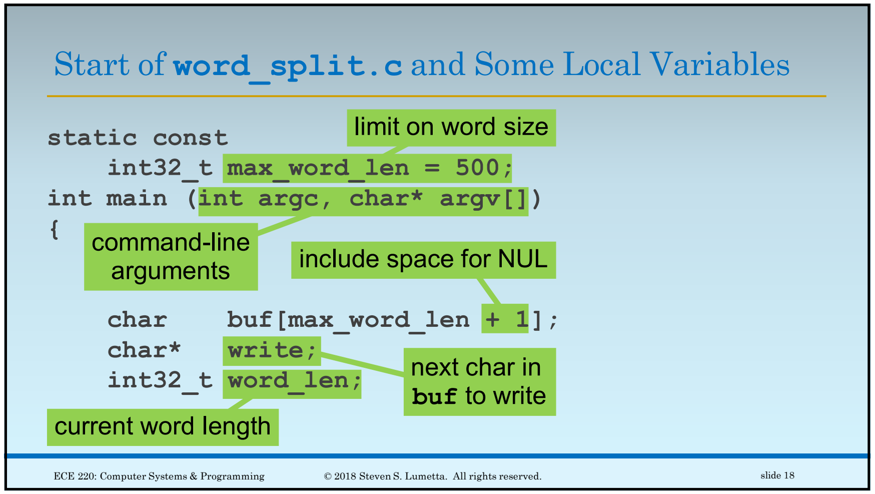


Start with the Word Split Program

Ready to write some code?

Let's start with `word_split.c`.

17



Start of `word_split.c` and Some Local Variables

```
static const
    int32_t max_word_len = 500;
int main (int argc, char* argv[])
{

    char    buf[max_word_len + 1];
    char*   write;
    int32_t word_len;
```

limit on word size

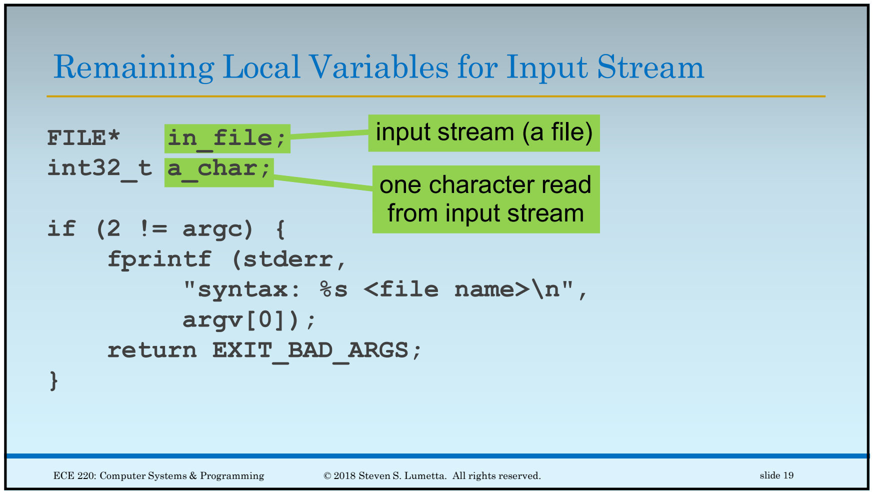
command-line arguments

include space for NUL

next char in **buf** to write

current word length

18



Remaining Local Variables for Input Stream

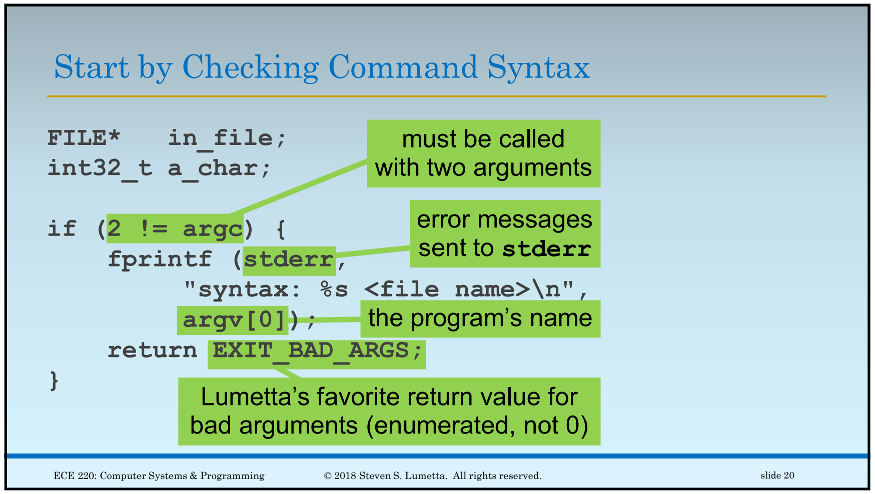
```
FILE*   in_file;
int32_t a_char;

if (2 != argc) {
    fprintf (stderr,
         "syntax: %s <file name>\n",
         argv[0]);
    return EXIT_BAD_ARGS;
}
```

input stream (a file)

one character read from input stream

19



Start by Checking Command Syntax

```
FILE*   in_file;
int32_t a_char;

if (2 != argc) {
    fprintf (stderr,
         "syntax: %s <file name>\n",
         argv[0]);
    return EXIT_BAD_ARGS;
}
```

must be called with two arguments

error messages sent to **stderr**

the program's name

Lumetta's favorite return value for bad arguments (enumerated, not 0)

20