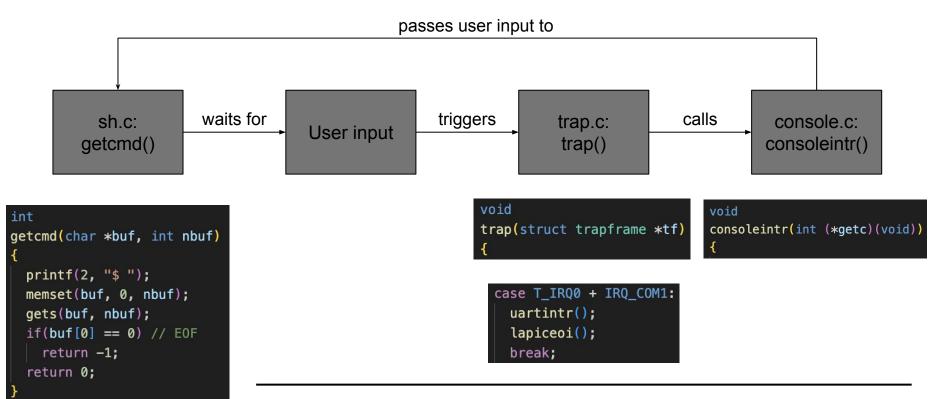
XV6 Shell History

Arthur Wang

Major Components



Implementation

Interacting with the console 1.

<pre>#define INPUT_BUF 128 struct { char buf[INPUT_BUF]; uint r; // Read index uint w; // Write index uint e; // Edit index } input;</pre>	<pre>case C('H'): case '\x7f': if(input.e != input.w){ input.e; consputc(BACKSPACE); } break;</pre>	// Backspace	<pre>default: if(c != 0 && input.e-input.r < INPUT_BUF){ c = (c == '\r') ? '\n' : c; input.buf[input.e++ % INPUT_BUF] = c; consputc(c); if(c == '\n' c == C('D') input.e ==</pre>
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Detecting keystrokes 2.



\n' || c == C('D') || input.e == input.r+INPUT_BUF){