

Exercise: word count: Given a string, count # of "words" (separated by "white space" chars ' ', '\t', '\n')

if $s = \text{"hello class"}$, # words = 2.

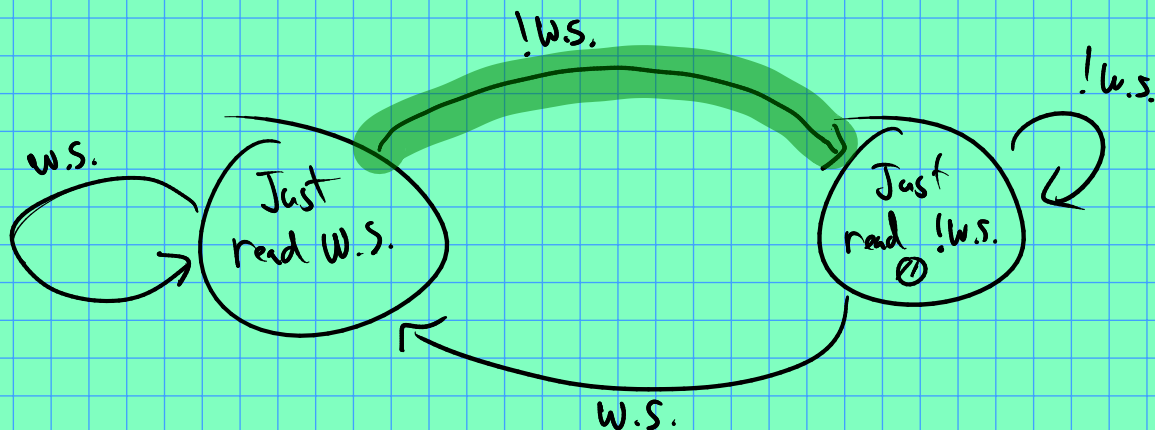
spaces + 1?

$s = \text{"...hello...class!"}$ should still give 2.
" — hello — "

Idea: count the beginnings of words.

start of word.
↓
 $\overline{ws} \rightarrow \overline{!ws}$

Big idea: use a "finite state machine":



— hi — class

How to represent in C/C++?

Suppose only w.s. chars we care about are ' ', '\t', '\n'

How to represent which state? A bool will suffice

(use an integer in general).