0.12) Show that every graph with 2 or more nodes contains two nodes that have equal degrees.

1.22a) In certain programming languages, comments appear between delimiters such as /# and #/. Let $C$ be a language of all valid delimited comment strings. A member of $C$ must begin with /# and end with #/ but have no intervening #/. For simplicity, we’ll say that the comments themselves are written with only the symbols $a$ and $b$; hence the alphabet of $C$ is $\Sigma = \{a, b, /, \#\}$. Give a DFA that recognizes $C$. 