Finite state automaton for the base version of compiler:

C_ - comment
I_ - identifier
L_ - literal
O_ - operator
P_ - punctuation
S - start
S_ - string
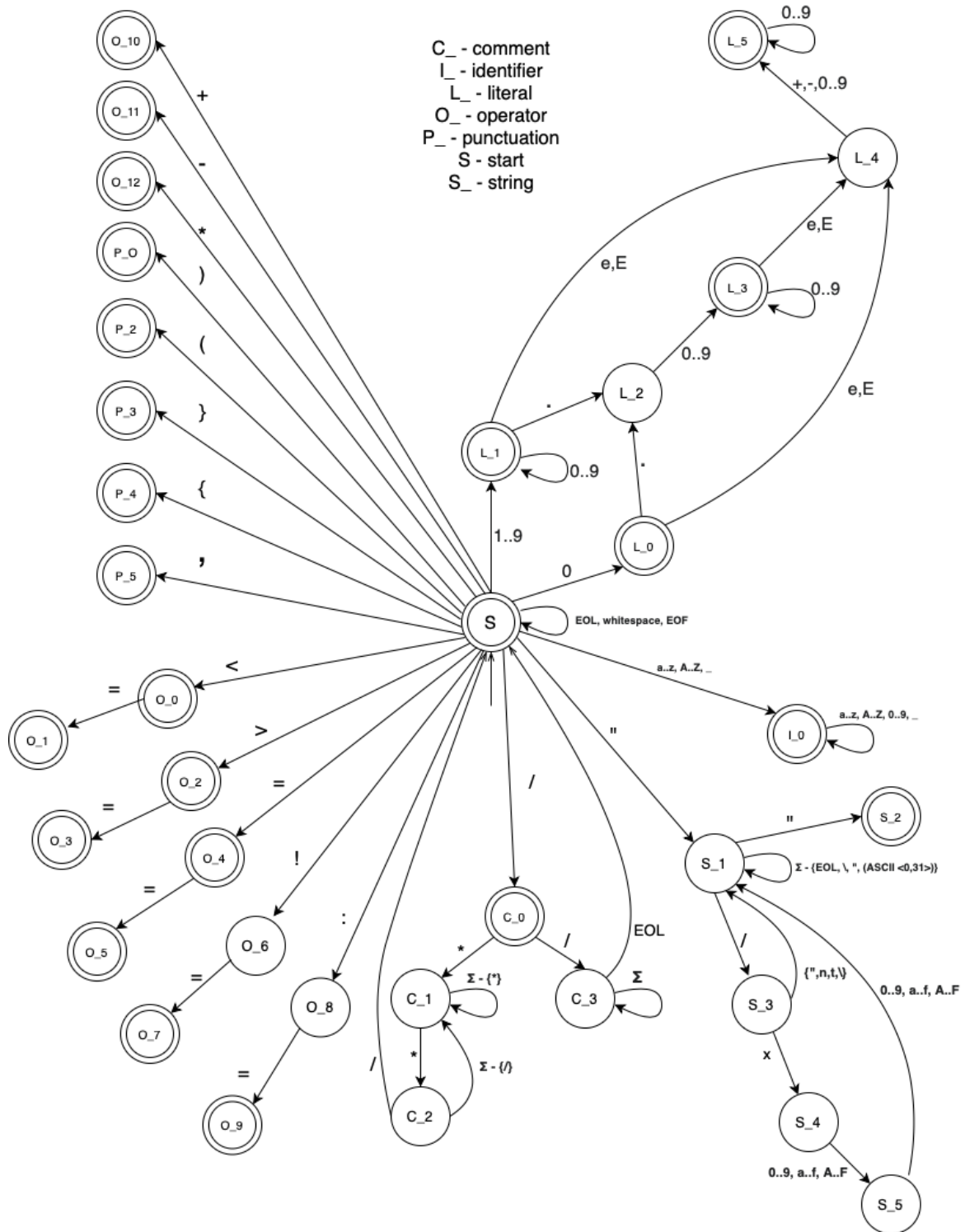
Finite state automaton for the extended version of compiler: