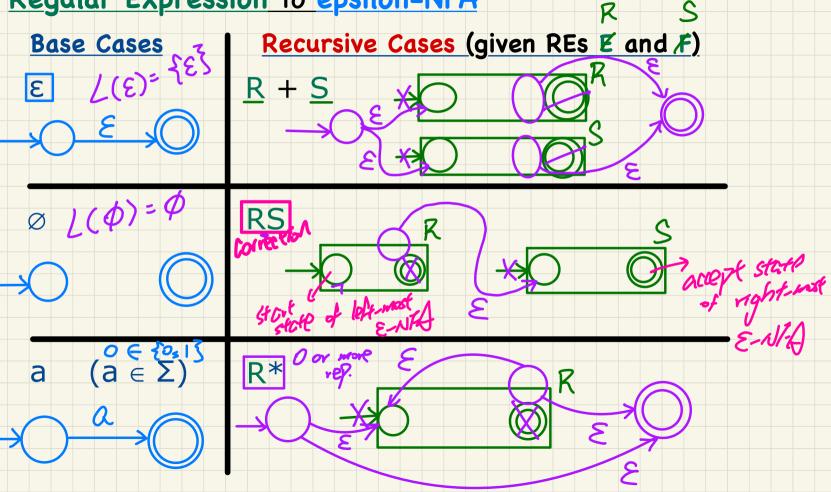
## Lecture 11 - June 10

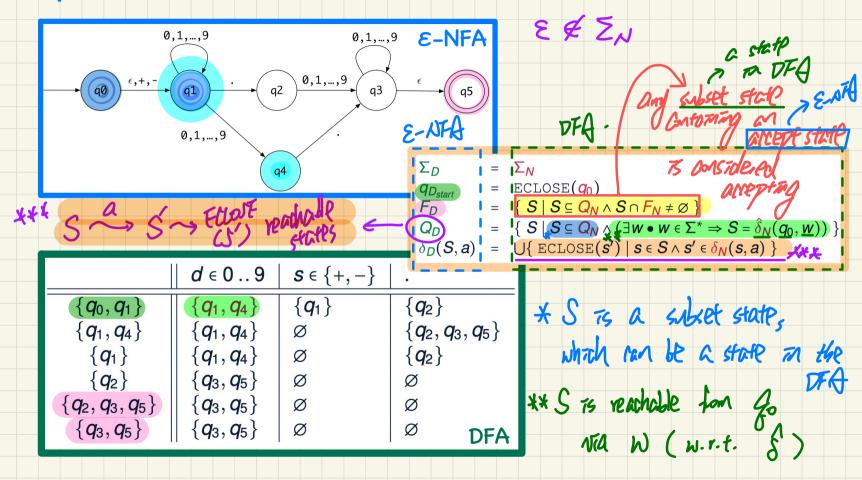
## **Lexical Analysis**

## Formulation: Ext. Subset Construction Minimizing DFA

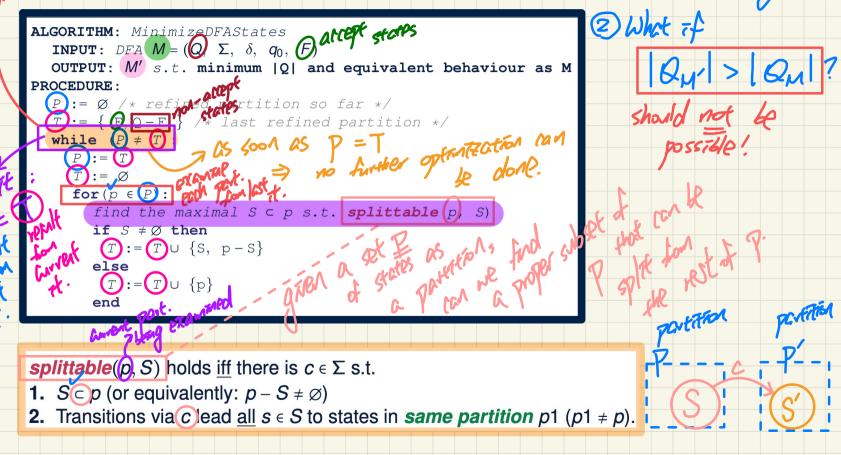
#### Regular Expression to epsilon-NFA



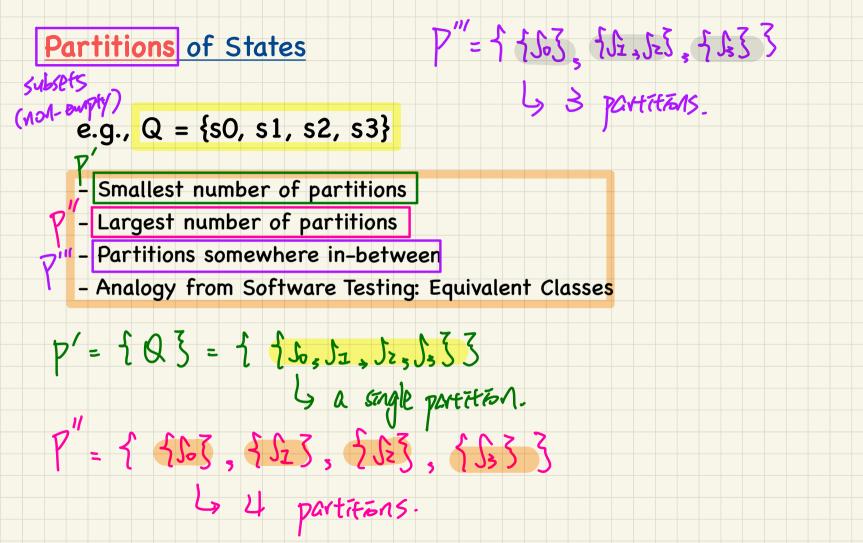
#### epsilon-NFA to DFA: Extended Subset Construction



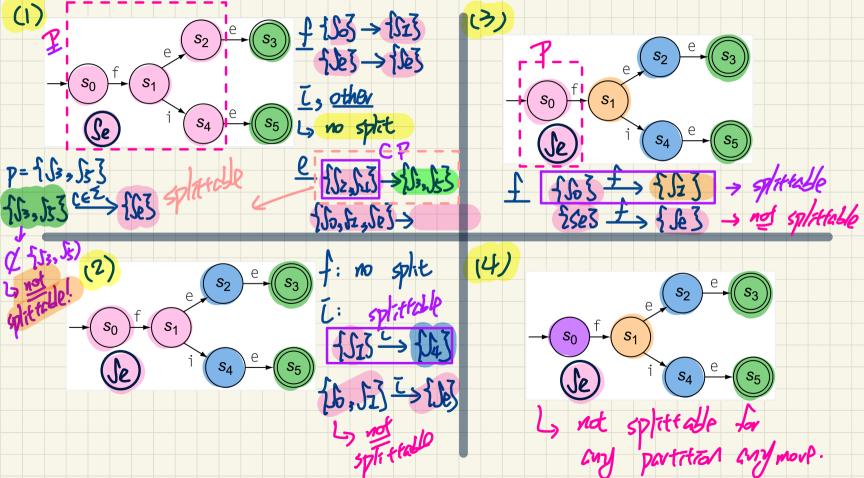
## Minimizing DFA: Algorithm

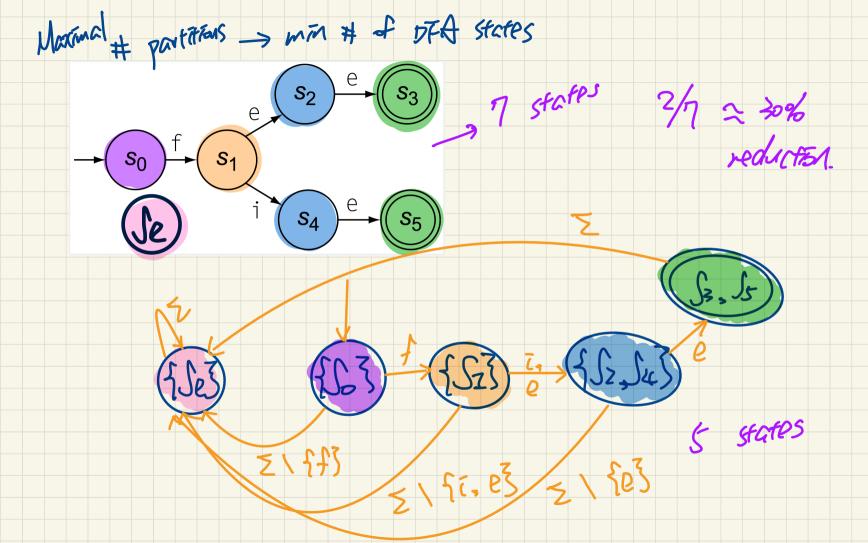


O What if M = M => no optimization was necessary

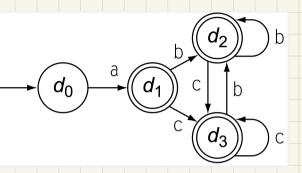


# Minimizing DFA: Example (1) mut symbols to focus on: f, i, e, other





## Minimizing DFA: Example (2)



## Minimizing DFA: Example (3)

