

**Deciding CFLs** 

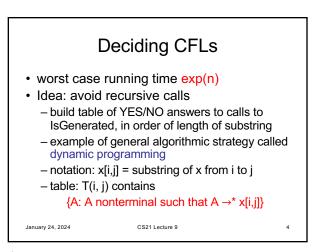
for k splittings x[i, i+k] = x[i,i+j]x[i+j+1, i+k]

T[i, i+k] = {A: "A  $\rightarrow$  BC" is a production

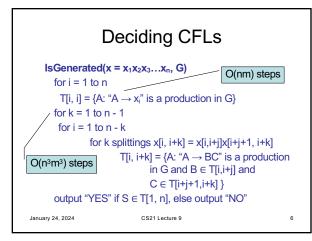
in G and  $B \in T[i,i+j]$  and

 $T[i, i] = \{A: "A \rightarrow x_i" \text{ is a production in } G\}$ 

3



4



IsGenerated( $x = x_1x_2x_3...x_n$ , G)

for i = 1 to n

January 24, 2024

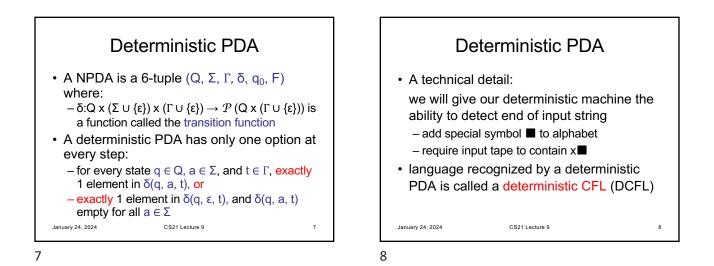
5

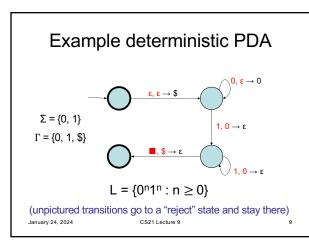
for k = 1 to n - 1

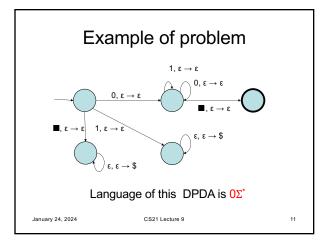
for i = 1 to n - k

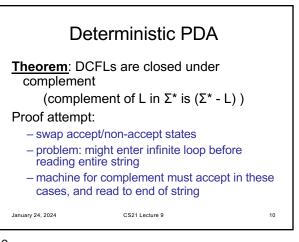


5

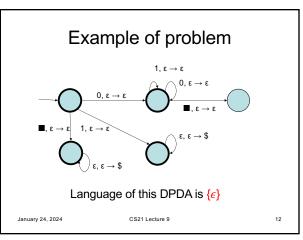


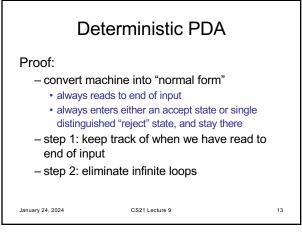


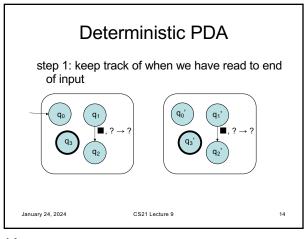


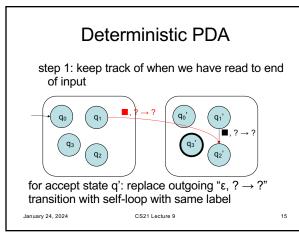


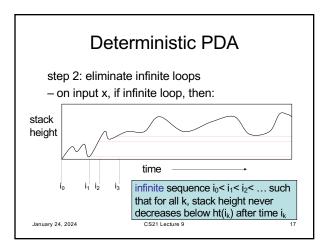


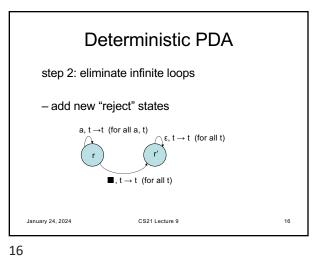


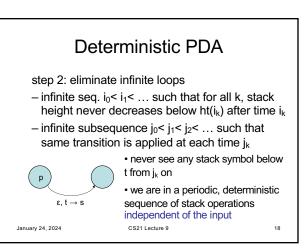


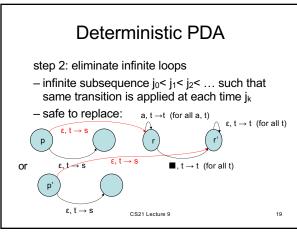


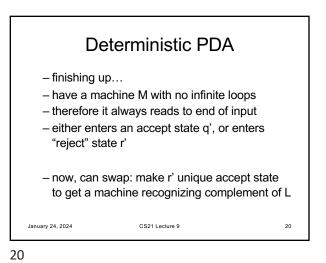












<section-header><section-header><list-item><list-item><list-item><list-item><list-item><list-item><list-item><table-container>



