

## revised version

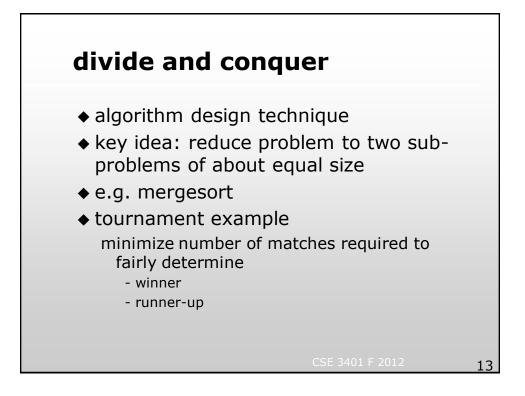
scan([], State) :- final\_states(F),
 member(State, F).

scan([Symbol | Seq], State) :State-Symbol-Next,
scan(Seq, Next).

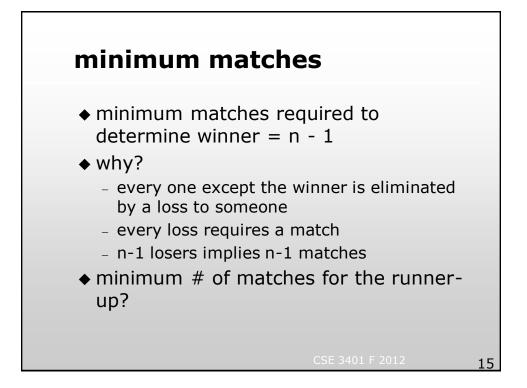
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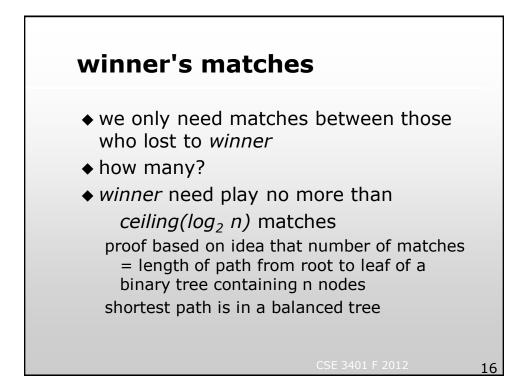
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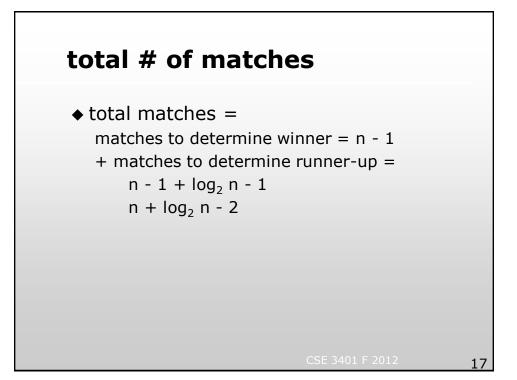
divide and conquer CSE 3401 F 2012 12



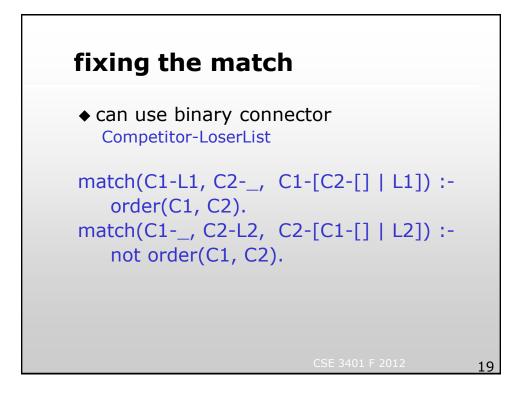




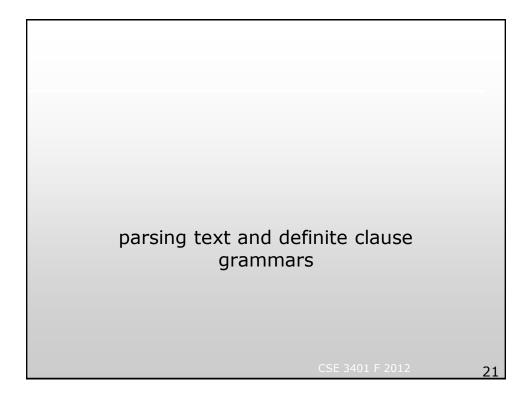


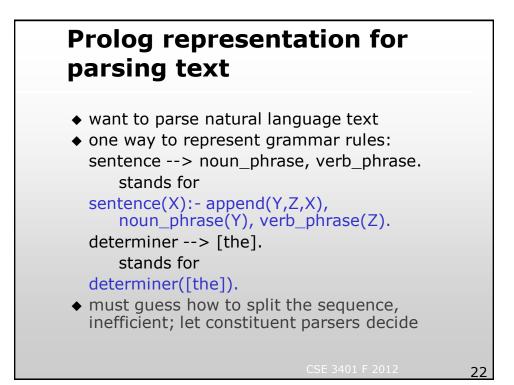


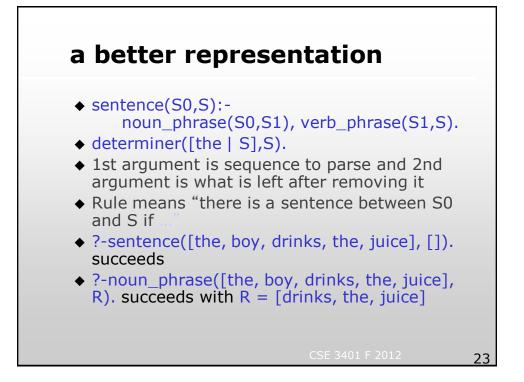










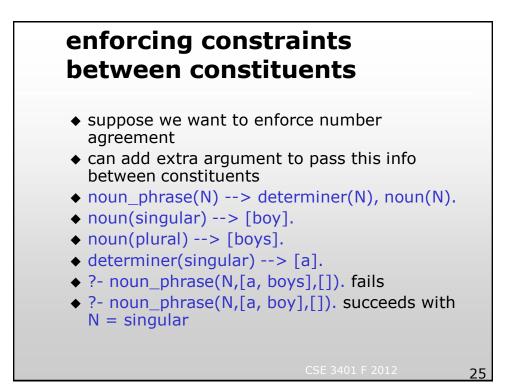


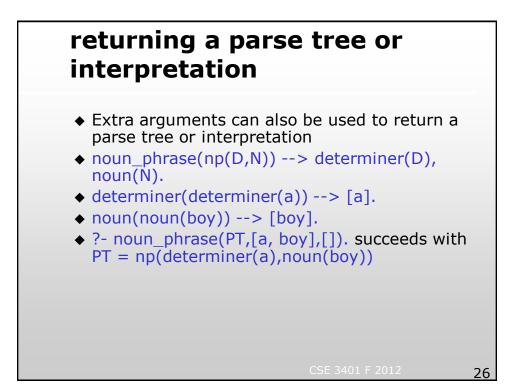
## definite clause grammar (DCG) notation

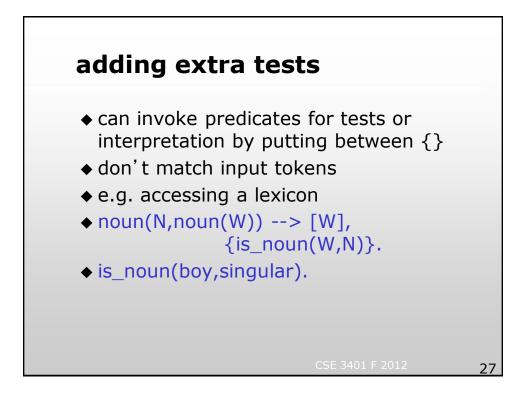
sentence -->
noun\_phrase,verb\_phrase.
 stands for
sentence(S0,S):- noun\_phrase(S0,S1),
 verb\_phrase(S1,S).
determiner --> [the].
 stands for
determiner([the|S],S).

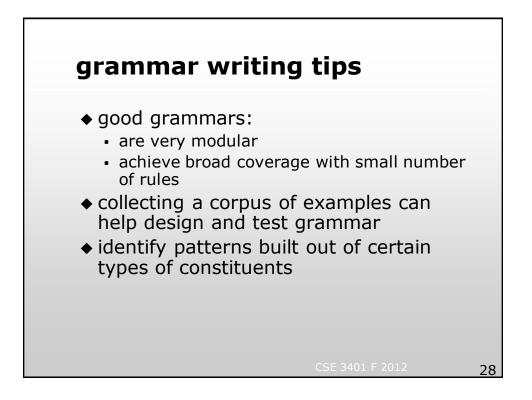
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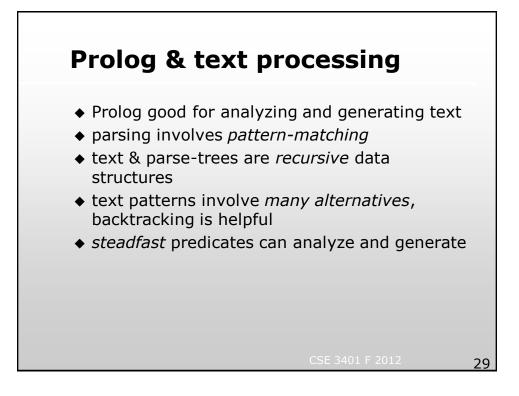
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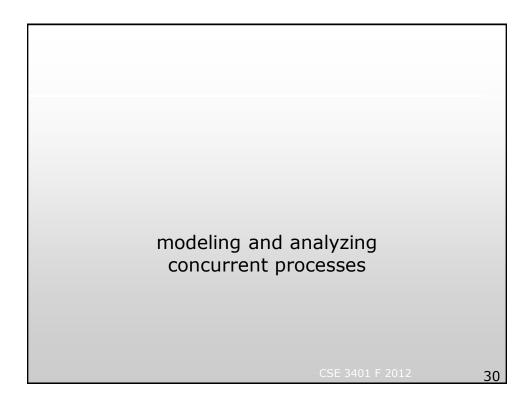


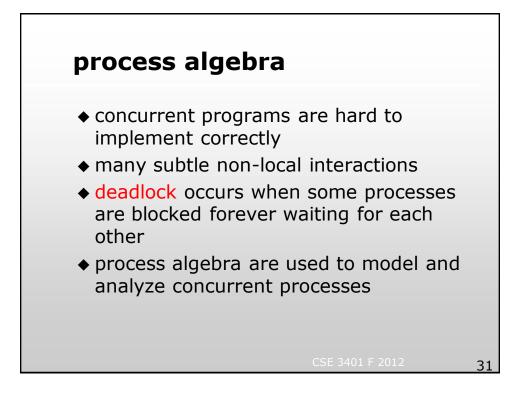


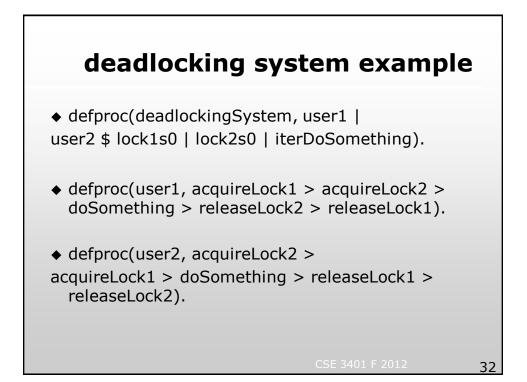












## deadlocking system example

defproc(lock1s0, acquireLock1 > lock1s1 ? 0). defproc(lock1s1, releaseLock1 > lock1s0).

defproc(lock2s0, acquireLock2 > lock2s1 ? 0). defproc(lock2s1,releaseLock2 > lock2s0). defproc(iterDoSomething, doSomething > iterDoSomething ? 0).

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