

BOTTOM-UP PARSE EXAMPLE

BACKUP STATES

CURRENT STATE

INPUT

The rich benefit the most

rich benefit the most

benefit the most

the most

the most

most

(FAIL)

most

(FAIL)

the most

the most

most

(FAIL)

most

(FAIL)

benefit the most

benefit the most

the most

most

(FAIL)

the most

most

SUCCESS!

RULES

S --> NP VP

NP --> Det A N

NP --> Det N

VP --> V

VP --> V NP

VP --> V ADVL

ADVL --> Det SUPERL

Lexicon

benefit: N, V

most: SUPERL

rich: A, N

the: Det

(Det N)₃

(Det A V)₄

(Det A N Det)₅

(Det A V Det)₅

(Det N N)₄ (Det N V)₄

(NP V)₄

Det

Det A

Det A N

NP

NP Det

NP Det SUPERL

NP ADVL

Det A N Det

Det A N Det SUPERL

Det A N ADVL

Det A V

Det A VP

Det A VP Det

Det A VP Det SUPERL

Det A VP ADVL

Det A V Det

Det A V Det SUPERL

Det A V ADVL

Det A VP

Det N

NP

NP N

NP N Det

NP N Det SUPERL

NP N ADVL

NP V

NP V Det

NP V Det SUPERL

NP V ADVL

NP VP

S

