

ICS 661 Quiz 6

Given the following context-free grammar and lexicon, show the **bottom-up** parse chart for “Time flies like an arrow.” Note that this specific problem is somewhat longer than what might appear on an exam. However, similar slightly shorter questions will appear.

grammar:

1. $S \rightarrow NP VP$
2. $S \rightarrow VP$
3. $NP \rightarrow Det N$
4. $NP \rightarrow N$
5. $NP \rightarrow N N$
6. $PP \rightarrow Prep NP$
7. $NP \rightarrow NP PP$
8. $VP \rightarrow V NP$
9. $VP \rightarrow V$
10. $VP \rightarrow VP PP$

lexicon

time	N, V
flies	N, V
like	Prep, V
an	Det
arrow	N