

1    The    2    large    3    can    4    can    5    hold    6    the    7    water.    8

Grammar:

1.  $S \rightarrow NP VP$
2.  $NP \rightarrow art adj n$
3.  $NP \rightarrow art n$
4.  $NP \rightarrow adj n$
5.  $VP \rightarrow aux VP$
6.  $VP \rightarrow v NP$

Lexicon:

the: art  
large: adj  
can: n, aux, v  
hold: n, v  
water: n, v

1      2      3      4      5      6      7      8  
The    large   can    can    hold   the   water.  
↓

S-> . NP VP  
NP-> . art adj n  
NP-> . art n  
NP-> . adj n

1      2                      3      4                      5                      6                      7                      8  
The      large      can      can      hold      the      water.  
V      art

S-> . NP VP  
NP-> . art adj n  
NP-> . art n  
NP-> . adj n

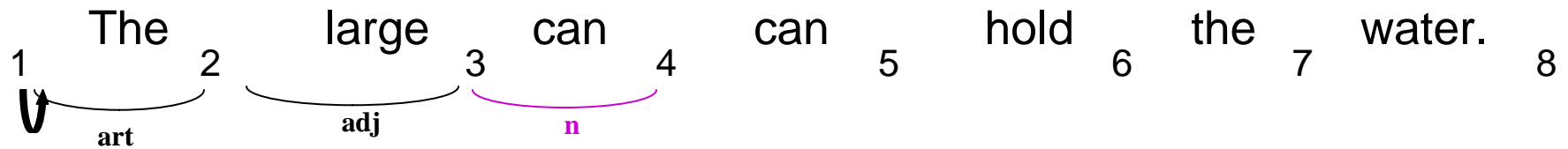
→

NP-> art . adj n

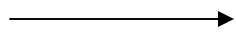
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NP-> art . n

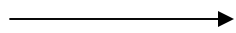




S-> . NP VP  
 NP-> . art adj n  
 NP-> . art n  
 NP-> . adj n



NP-> art . adj n



NP-> art . n

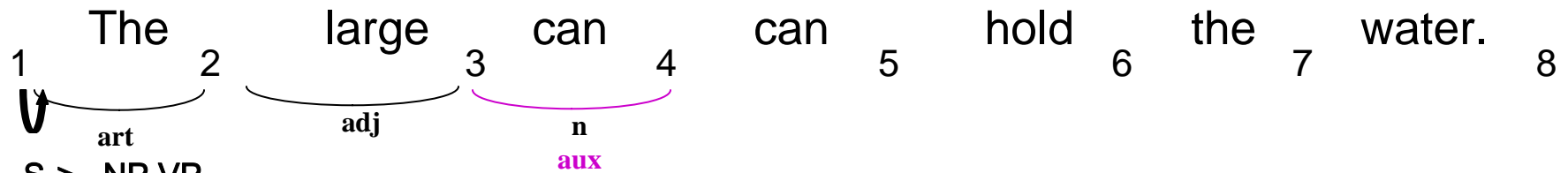


Agenda:

3 aux 4

3 V 4

1 NP 4 (rule 2)



S-> . NP VP  
 NP-> . art adj n  
 NP-> . art n  
 NP-> . adj n

→

NP-> art . adj n

→

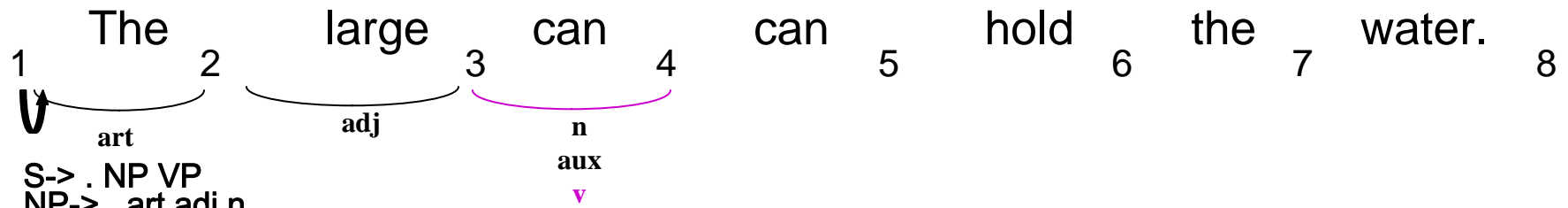
NP-> art . n

→  
 NP-> art adj . n

Agenda:

3 v 4

1 NP 4 (rule 2)



S-> . NP VP  
 NP-> . art adj n  
 NP-> . art n  
 NP-> . adj n

—————>

NP-> art . adj n

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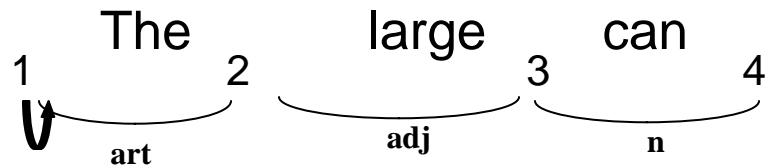
NP-> art . n

—————>  
 NP-> art adj . n

Agenda:

1 NP 4 (rule 2)

NP (rule 2)



can 5      hold 6      the 7      water. 8

S-> . NP VP  
 NP-> . art adj n  
 NP-> . art n  
 NP-> . adj n

aux  
v

NP-> art . adj n

NP-> art . n

NP-> art adj . n

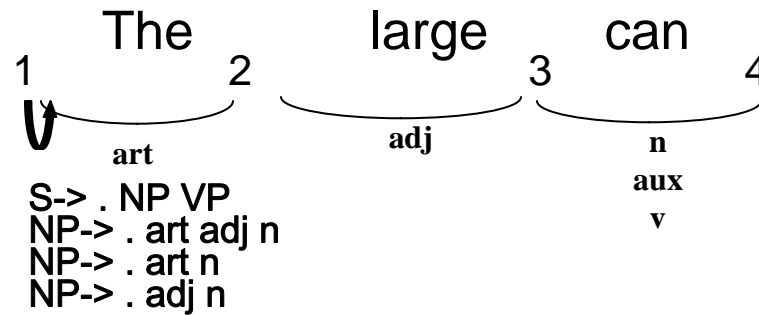
Agenda:

S -> NP . VP

VP-> . aux VP  
 VP-> . v VP



NP (rule 2)



NP-> art . adj n

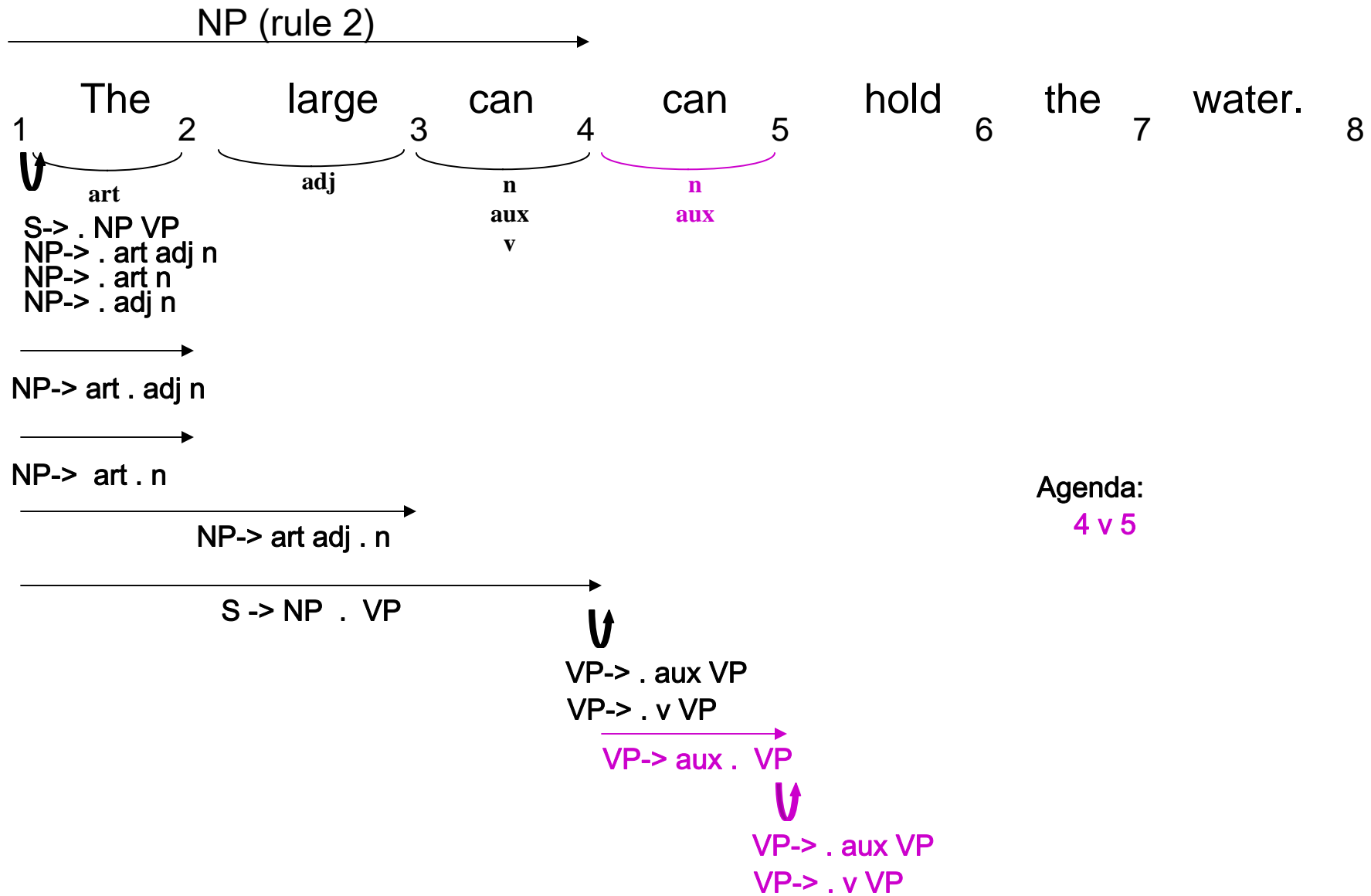
NP-> art . n

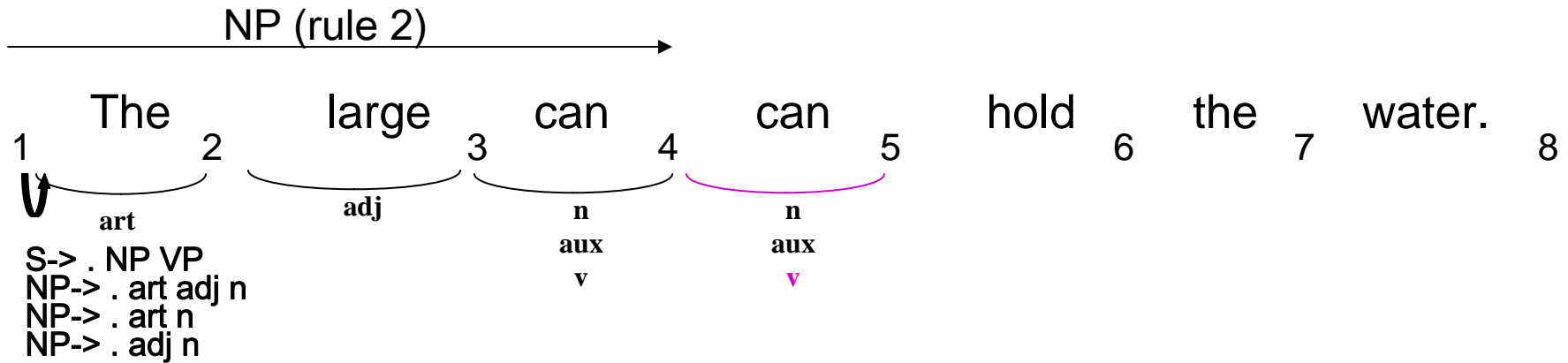
NP-> art adj . n

S-> NP . VP

VP-> . aux VP  
VP-> . v VP

Agenda:  
4 n 5  
4 aux 5  
4 v 5





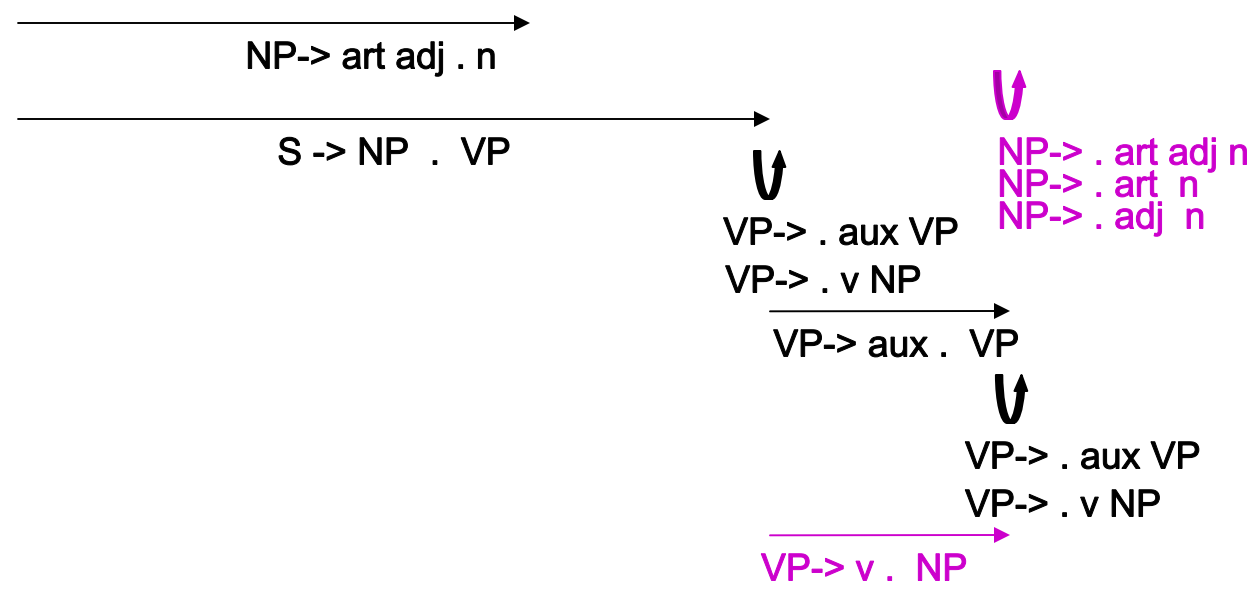
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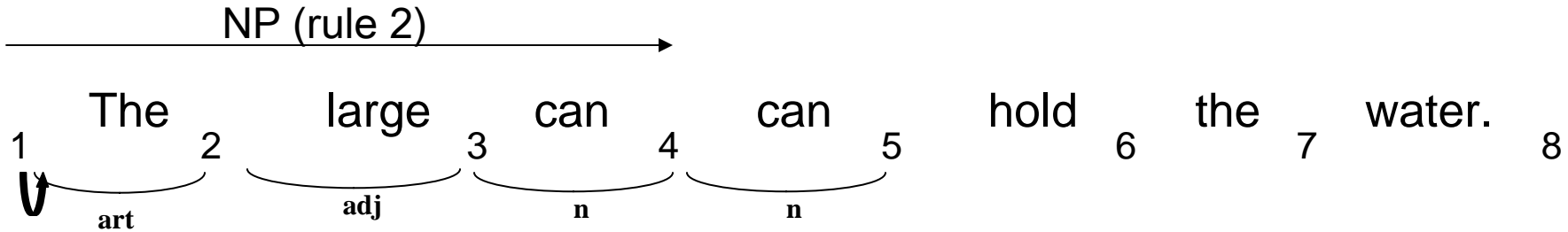
NP-> art . adj n

→

NP-> art . n

Agenda:





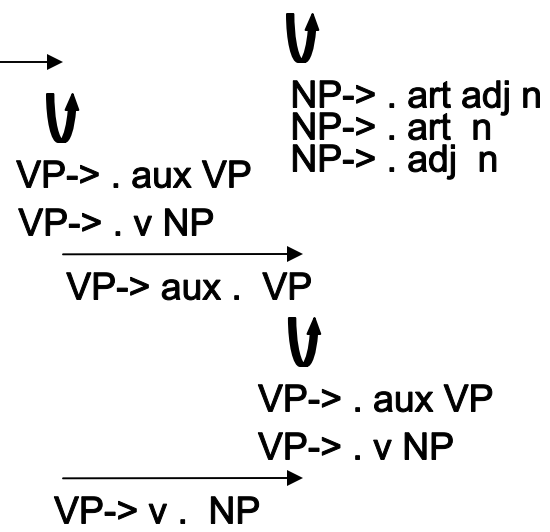
S->. NP VP  
 NP->. art adj n  
 NP->. art n  
 NP->. adj n

NP-> art . adj n

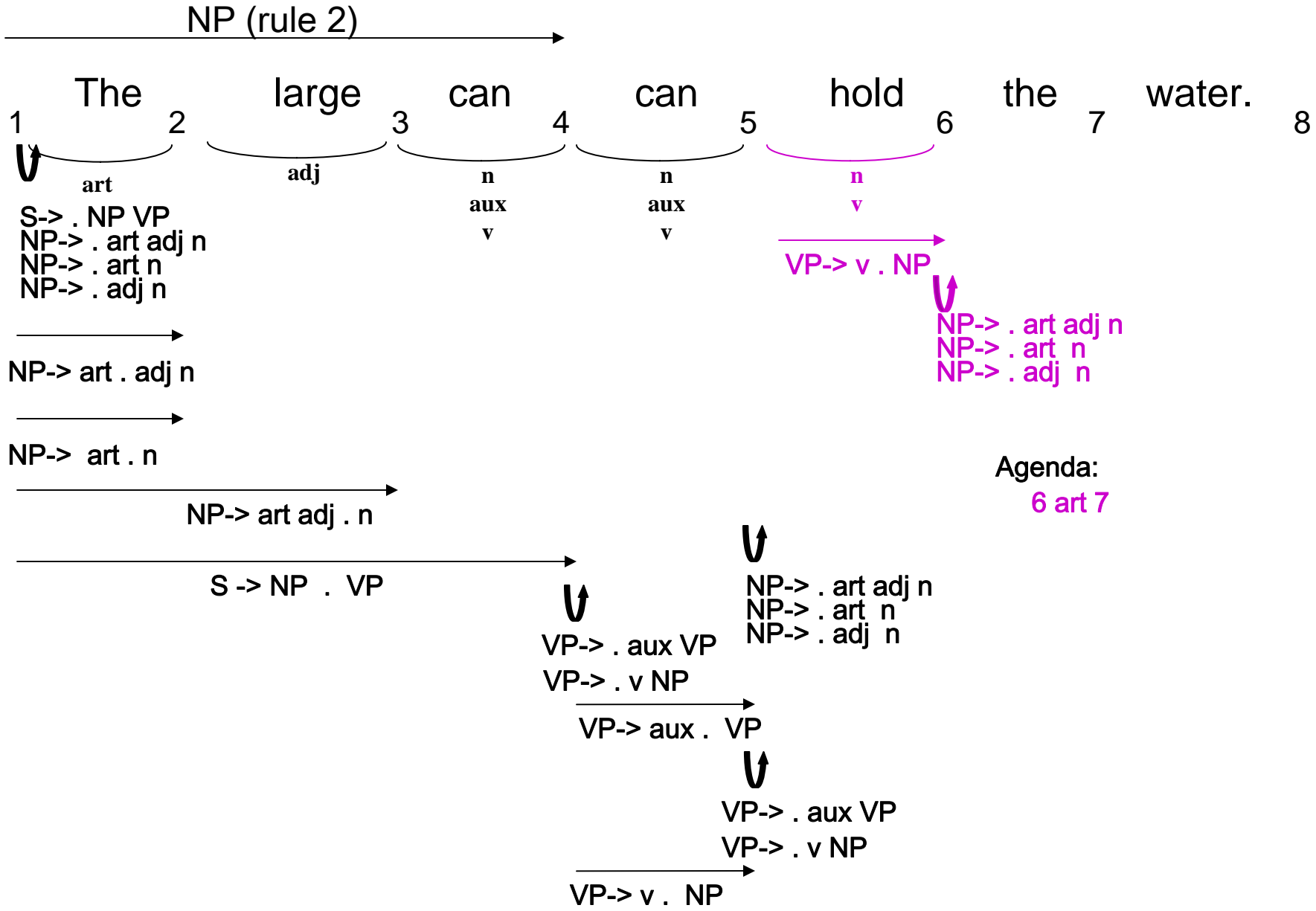
NP-> art . n

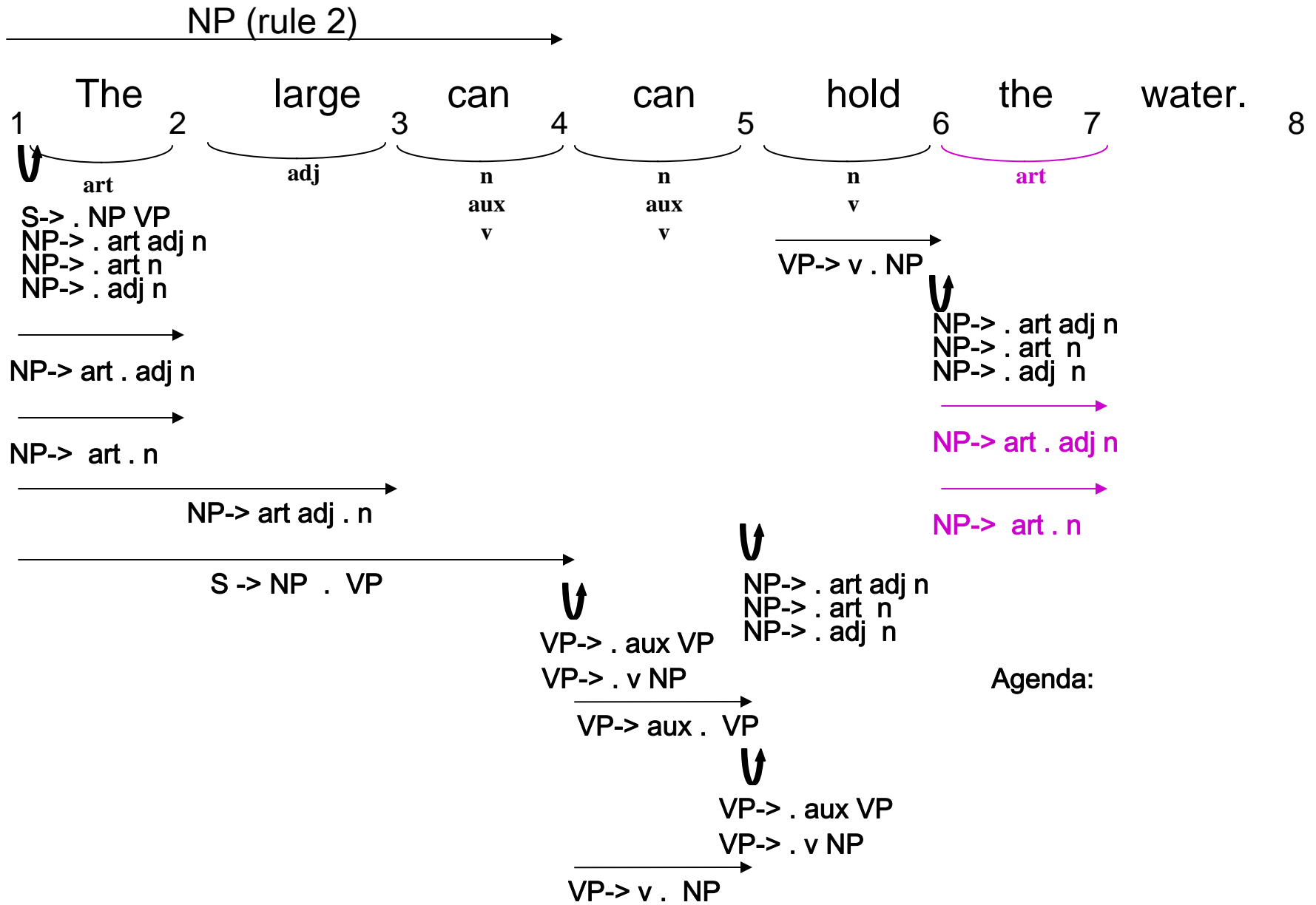
NP-> art adj . n

S-> NP . VP



Agenda:  
 5 n 6  
 5 v 6





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