The large can can hold the water.

1   2   3   4   5   6   7   8

Grammar:

1. S → NP VP
2. NP → art adj n
3. NP → art n
4. NP → adj n
5. VP → aux VP
6. VP → v NP

Lexicon:

the: art

large: adj

can: n, aux, v

hold: n, v

water: n, v

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

S-> . NP VP

The   large   can   can   hold   the   water.

1   2   3   4   5   6   7   8

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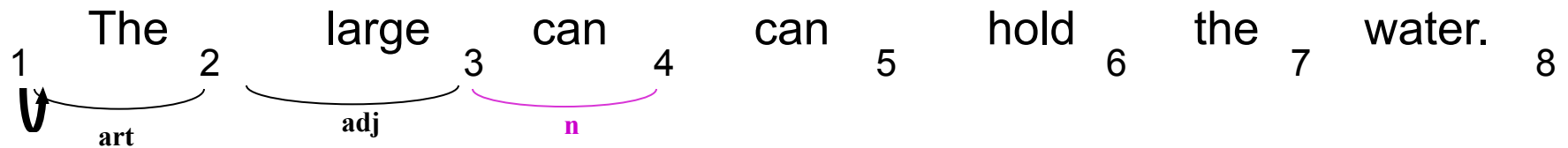NP-> . adj n

The large can can hold the water.

1   2   3   4   5   6   7   8

art

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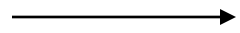NP-> . art adj n
NP-> . art n
NP-> . adj n

NP-> art . adj n

NP-> art . n

The large can can hold the water.

1   2   3   4   5   6   7   8

art

adj

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

NP-> art . adj n

NP-> art . n

NP-> art adj . n

The large can can hold the water.

1   2   3   4   5   6   7   8
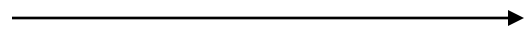
art   **adj**   **n**

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 aux 4

3 V 4

1 NP 4 (rule 2)
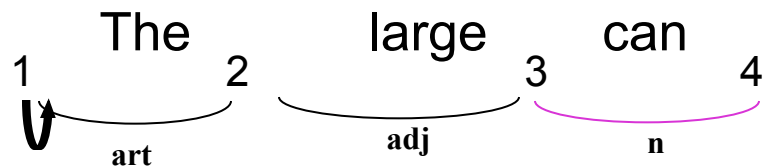
The   large   can   can   hold   the   water.

1   2   3   4   5   6   7   8

art   **adj**   **n**

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)

The   large   can   can   hold   the   water.

1   2   3   4   5   6   7   8

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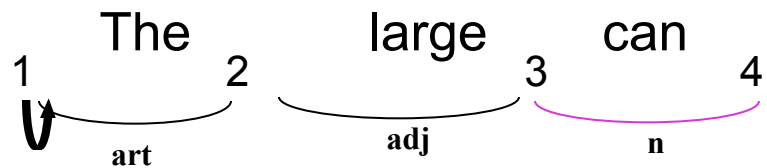
S-> . NP VP
NP-> . art adj n
NP-> . art n
NP-> . adj n
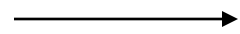
NP-> art . adj n

NP-> art . n

NP-> art adj . n

Agenda:

$_1$ NP $_4$ (rule 2)

NP (rule 2) →
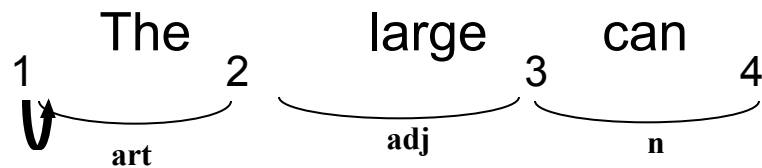
The   large   can   can   hold   the   water.

1   2   3   4   5   6   7   8

art   **adj**   **n**

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

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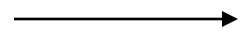VP-> . v VP

Agenda:

NP (rule 2)

The   large   can   can   hold   the   water.

1   2   3   4   5   6   7   8

art   **adj**   **n**

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

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

Agenda:
4 n 5
4 aux 5
4 v 5

NP (rule 2)

The   large   can   can   hold   the   water.

1   2   3   4   5   6   7   8

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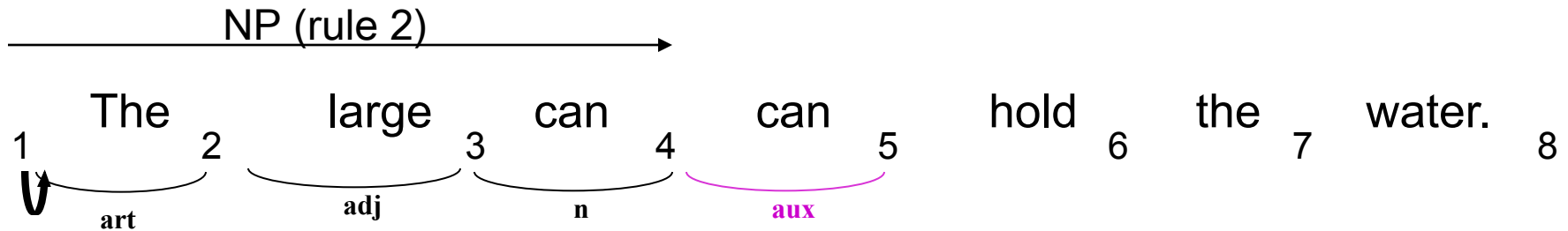
S-> . NP VP
NP-> . art adj n
NP-> . art n
NP-> . adj n

NP-> art . adj n

NP-> art . n

NP-> art adj . n

S -> NP . VP

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

VP-> aux . VP

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

Agenda:
4 v 5

NP (rule 2)

The   large   can   can   hold   the   water.

1   2   3   4   5   6   7   8

art   **adj**   **n**   **aux**

v

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

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

NP-> . art adj n
NP-> . art n
NP-> . adj n

VP-> aux . VP

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

VP-> v . NP

Agenda:

NP (rule 2)

The   large   can   can   hold   the   water.

1   2   3   4   5   6   7   8

art   **adj**   **n**   **aux**
v

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

NP-> . art adj n
NP-> . art n
NP-> . adj n

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

VP-> aux . VP

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

VP-> v . NP

Agenda:

5 n 6

5 v 6

NP (rule 2)

The   large   can   can   hold   the   water.

1   2   3   4   5   6   7   8

art   **adj**   **n**   **aux**   **v**

v

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

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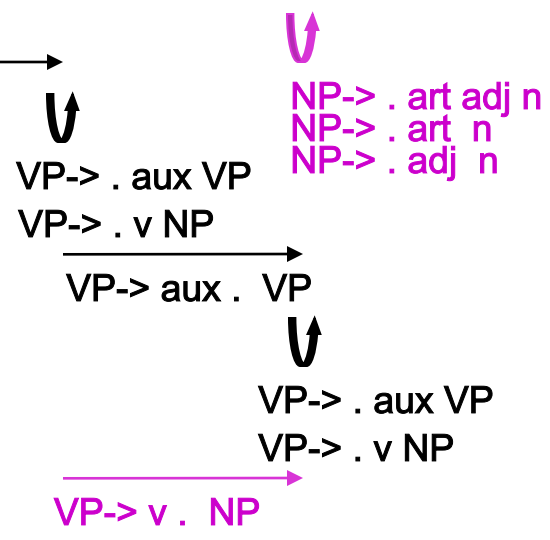VP-> . v NP

VP-> aux . VP

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

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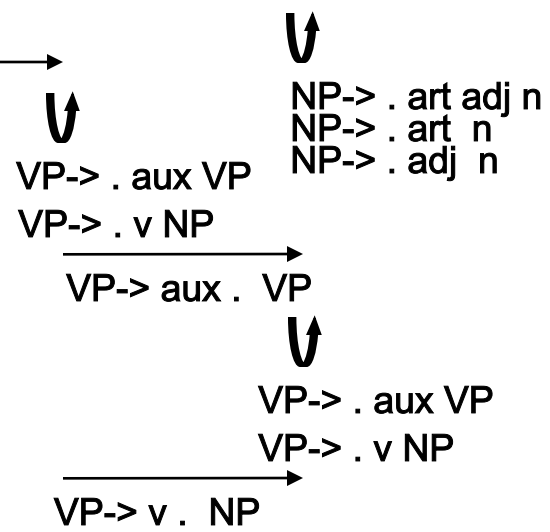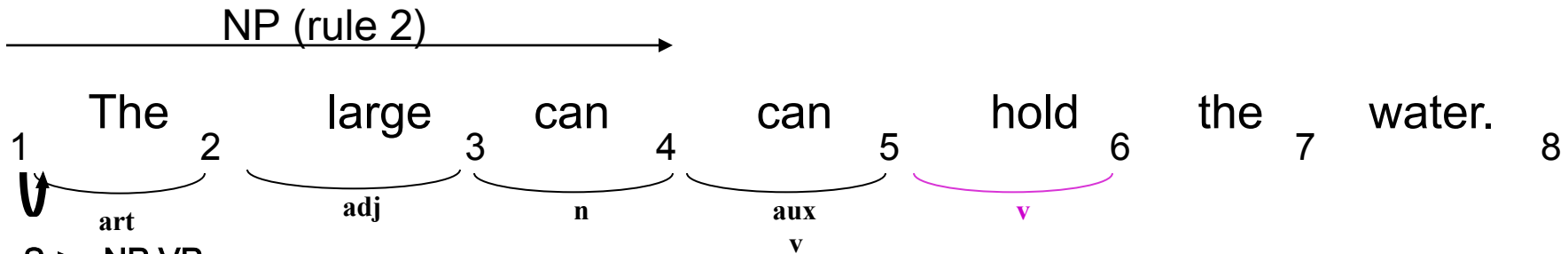
NP-> . art adj n
NP-> . art n
NP-> . adj n

VP-> v . NP

NP-> . art adj n
NP-> . art n
NP-> . adj n

Agenda:
6 art 7

NP (rule 2)

The   large   can   can   hold   the   water.

1   2   3   4   5   6   7   8

art   **adj**   **n**   **aux**   **v**   **art**

v

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

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

VP-> aux . VP

NP-> . art adj n
NP-> . art n
NP-> . adj n

VP-> v . NP

NP-> . art adj n
NP-> . art n
NP-> . adj n

NP-> art . adj n

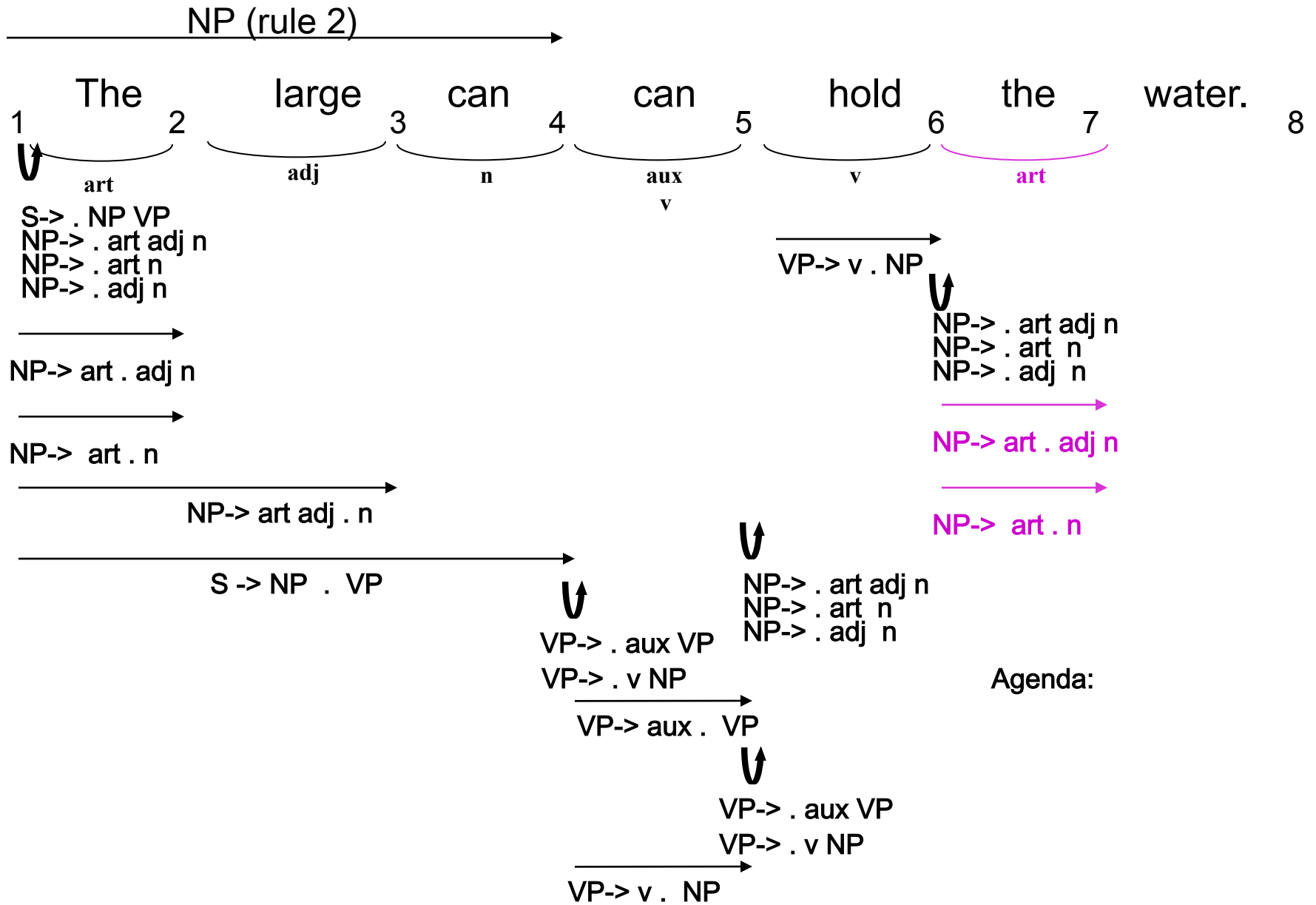NP-> art . n

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

VP-> v . NP

Agenda:

- Stopped here…