S → NP VP

NP → the NP1 | NP1 | NP2

NP1 → ADJ NP1 | N

NP2 → NP1 PP

ADJ → big | small

N → boy | ball | bat | autograph

VP → V | V NP

VP → VP PP

V → hits

PP → with NP

S → NP VP

NP1 → the NP1

VP → V NP

PP → with NP

Rule ③

or (two different parse trees)