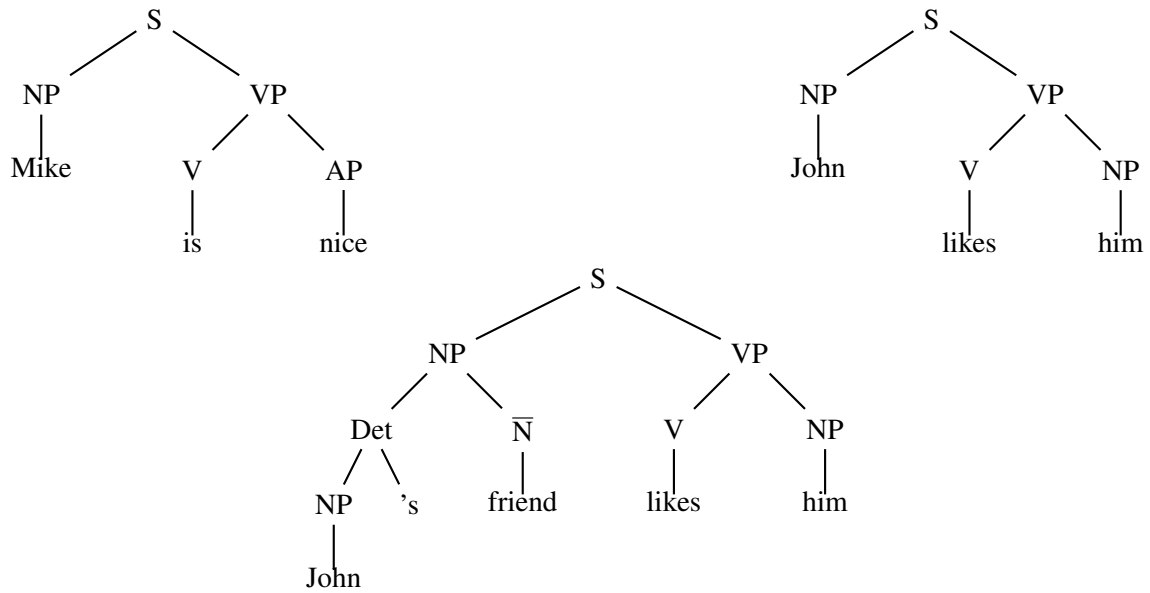**Problem 1.** Assume a grammar that gives the following parse trees.

a. (5 points) What does the algorithm predict as the antecedent for the pronoun *him* in the following discourse? Show the steps. ***Mike is nice. John likes him.***