Question 1

Which is the correct parse for the sentence "The dog in the car ate the bagels."

A) \( (S (NP (NP The dog) (PP in (NP the car))) (VP ate (NP the bagels))) .) \)

B) \( (S (NP The dog) (PP in (S (NP the car) (VP ate (NP the bagels)))) .) \)

Give one reason you chose the answer you did. (One sentence answer)

Question 2

Consider the sentence with the parse:

\( (S (NP I) (VP (VP fed (NP the dog)) and (VP let in (NP the cat)))) .) \)

Suppose your parser returned the incorrect parse:

\( (S (NP I) (VP (VP fed (NP the dog)) and (VP let (PP in (NP the cat)))) .) \)

(the "in" in "let in" is considered a "particle" in English, and it is not the start of a prepositional phrase (PP))

1. Give the list of the correct constituents in \langle label, start#, end# \rangle notation, and an add/delete list to show how the second parse differs.

2. What would your parser’s precision, recall and f-score be for this one sentence? (2 significant digits)

3. What is the in order correct parse for the sentence in problem 2?