

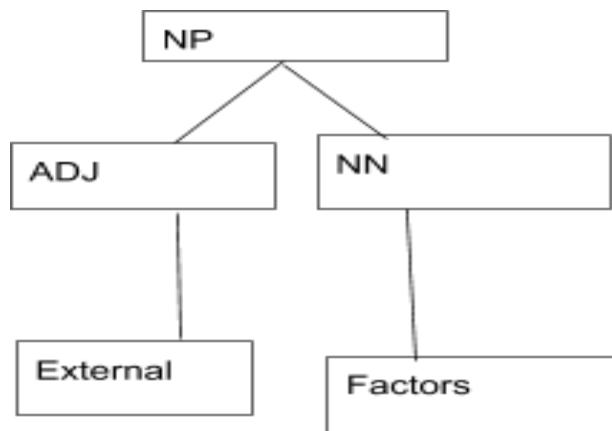
Exercise 1

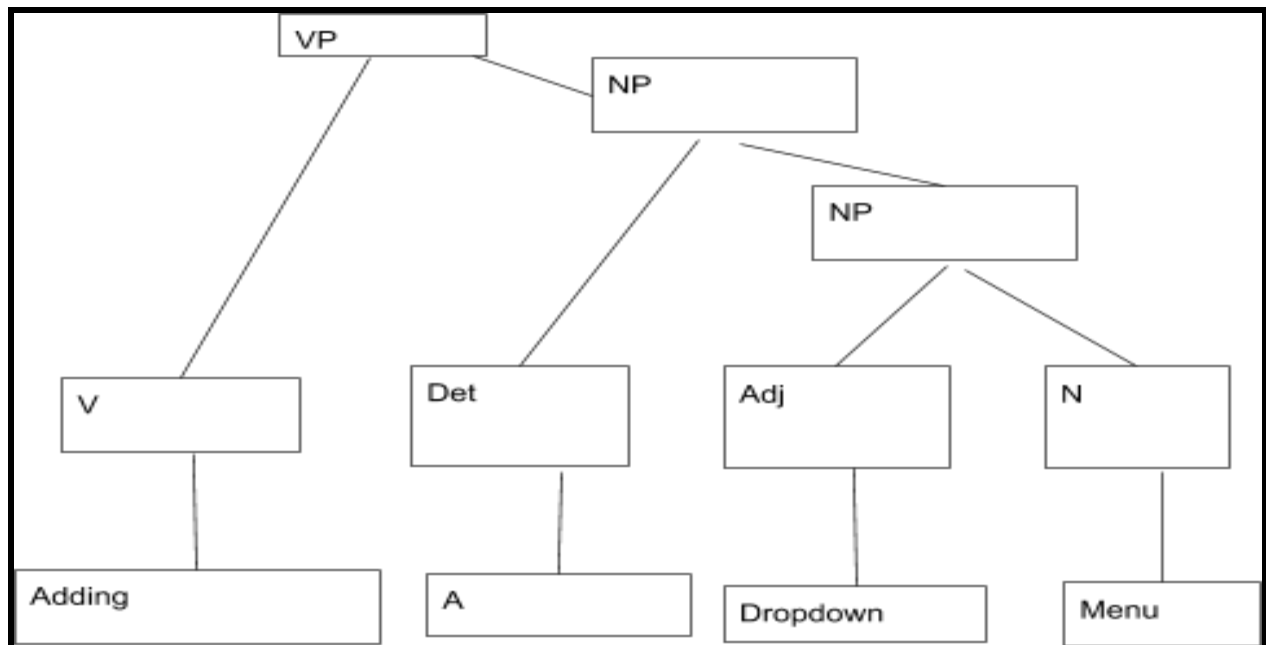
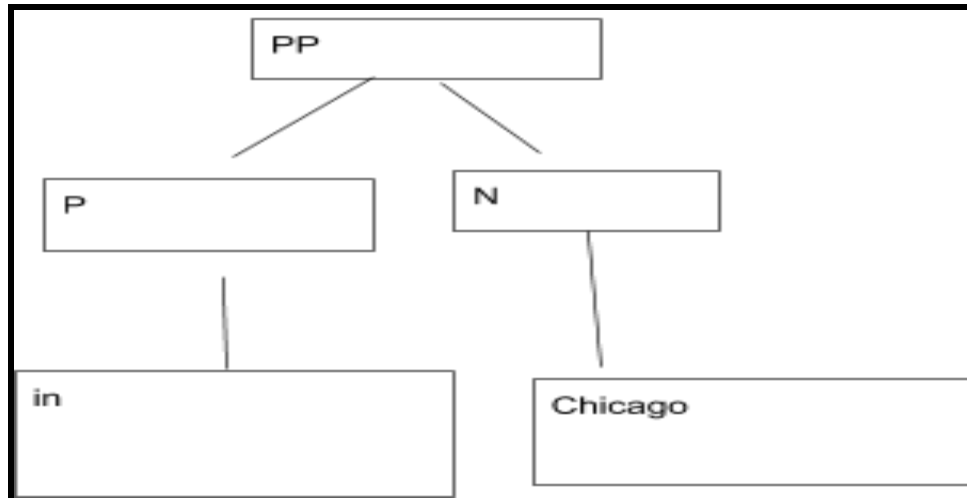
Ambiguity: Find two different interpretations for the following sentence: Annoying children can be tiresome. What is the cause of the ambiguity?

The ambiguity comes from the word 'Annoying'. This could be interpreted as either an adjective describing children, in that they can be annoying, or it could be interpreted as a verb, in which someone is annoying a child, and finds the activity tiresome.

Exercise 2

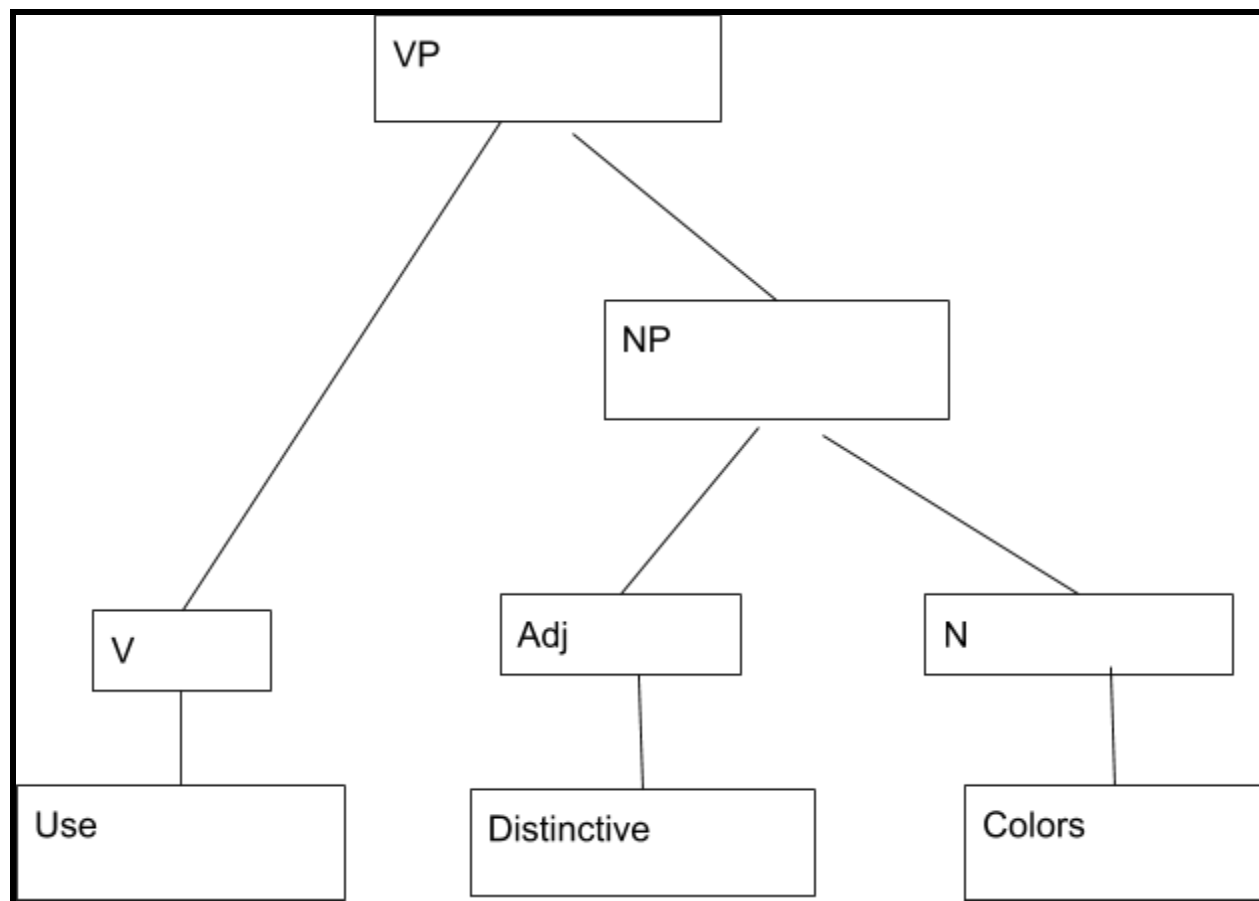
Draw tree structures for the following phrases.



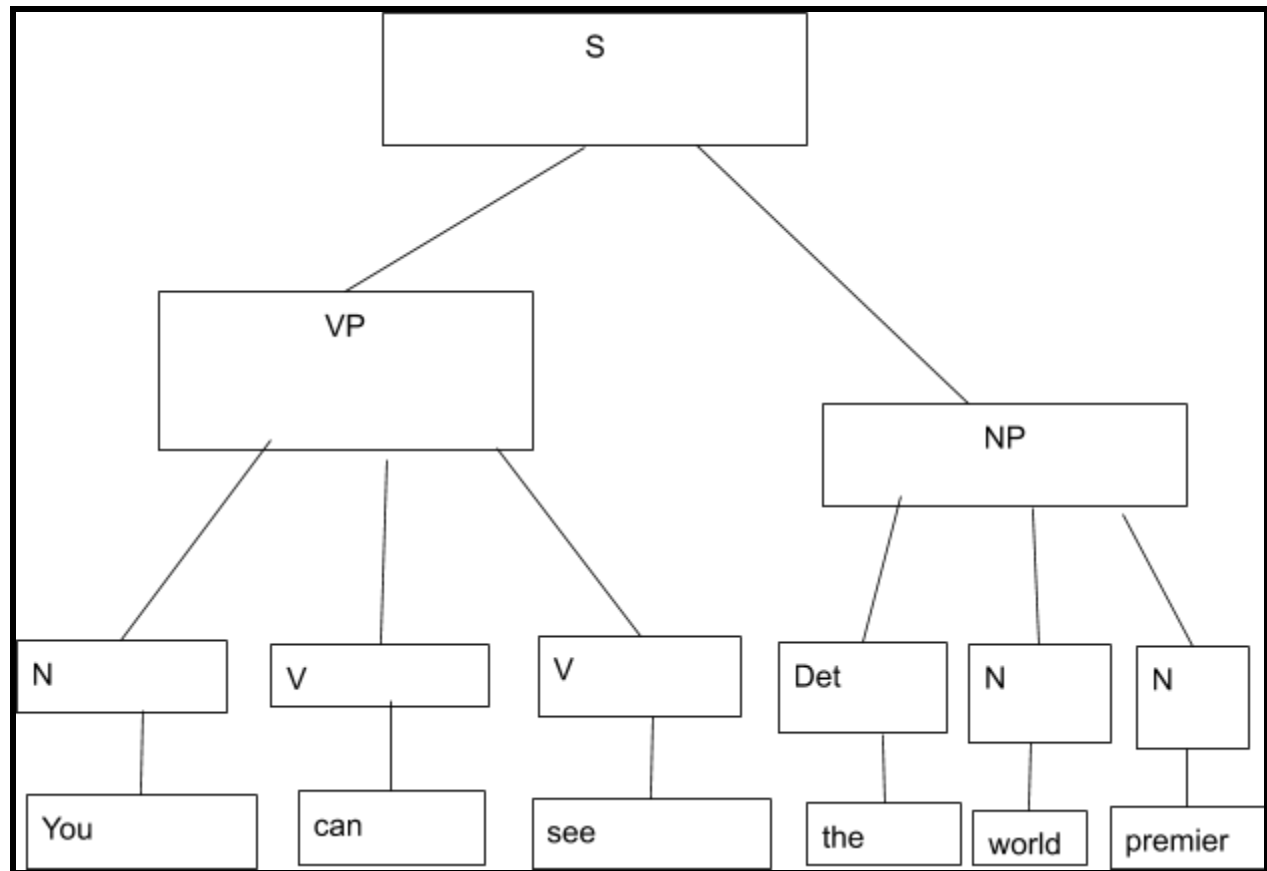


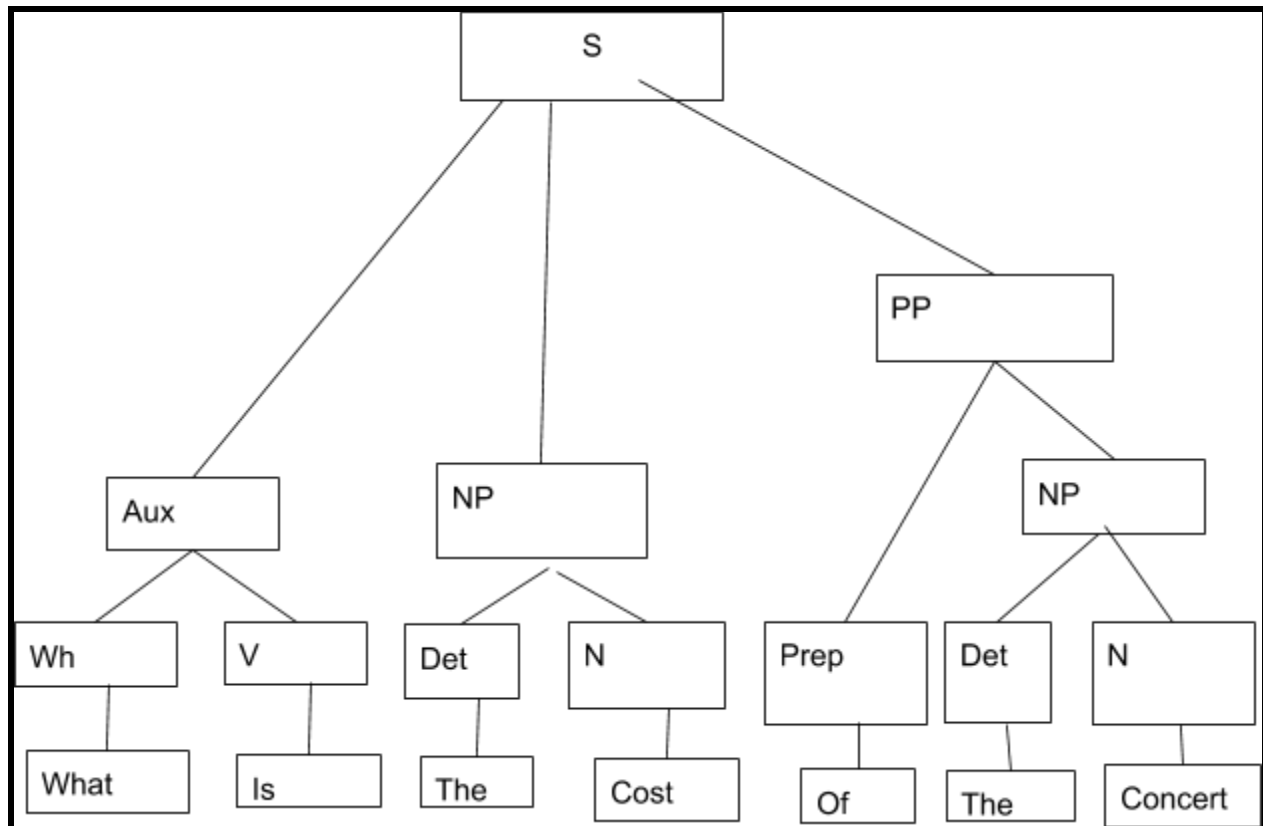
Exercise 3

Create a grammar and draw a tree structures for each of the following sentences



:





Exercise 4

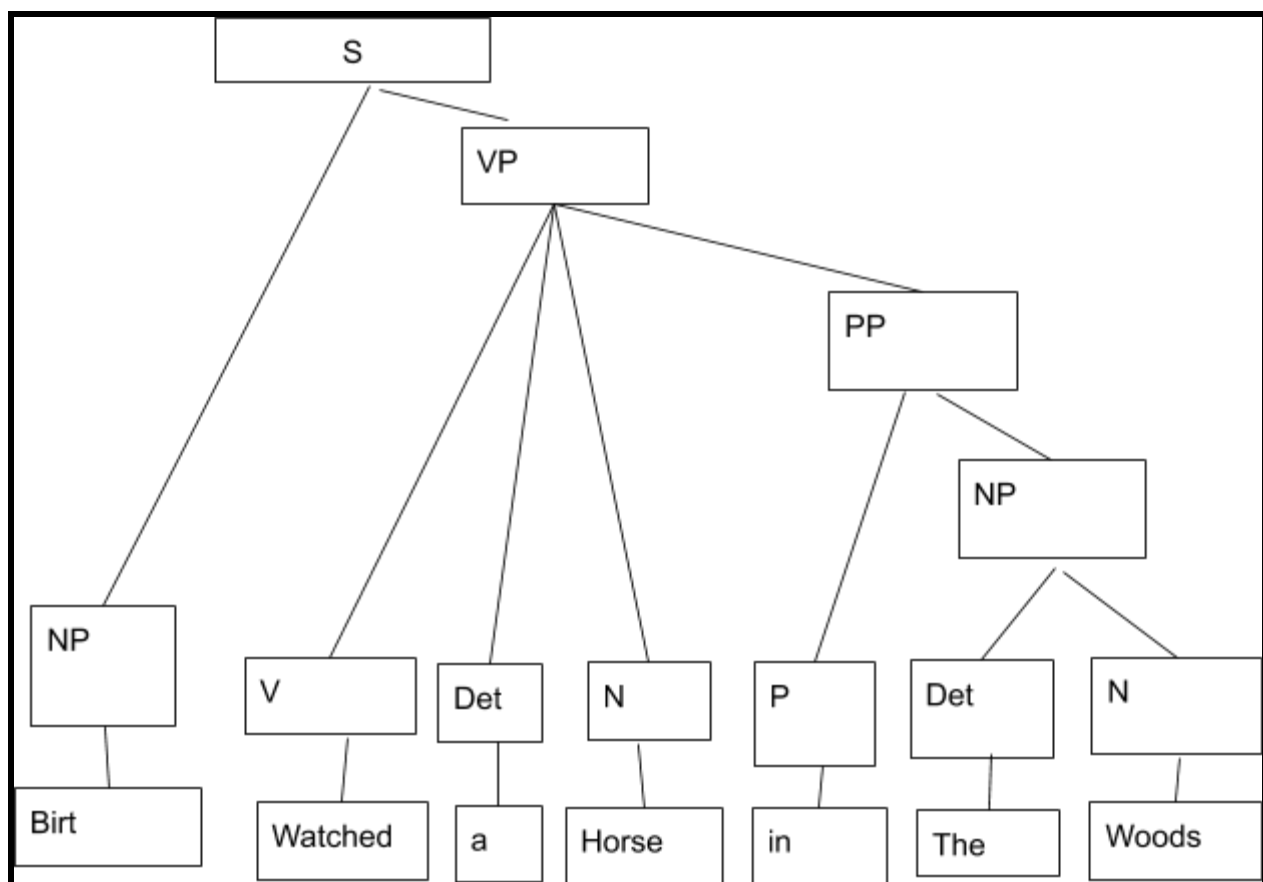
Using grammar 1 from the NLTK Book, generate 2 sentences and draw the tree structure for those sentences. Can the grammar be used to describe sentences that are more than 20 words in length? Why or why not?

For the sentence, 'Birt watched a horse in the woods':

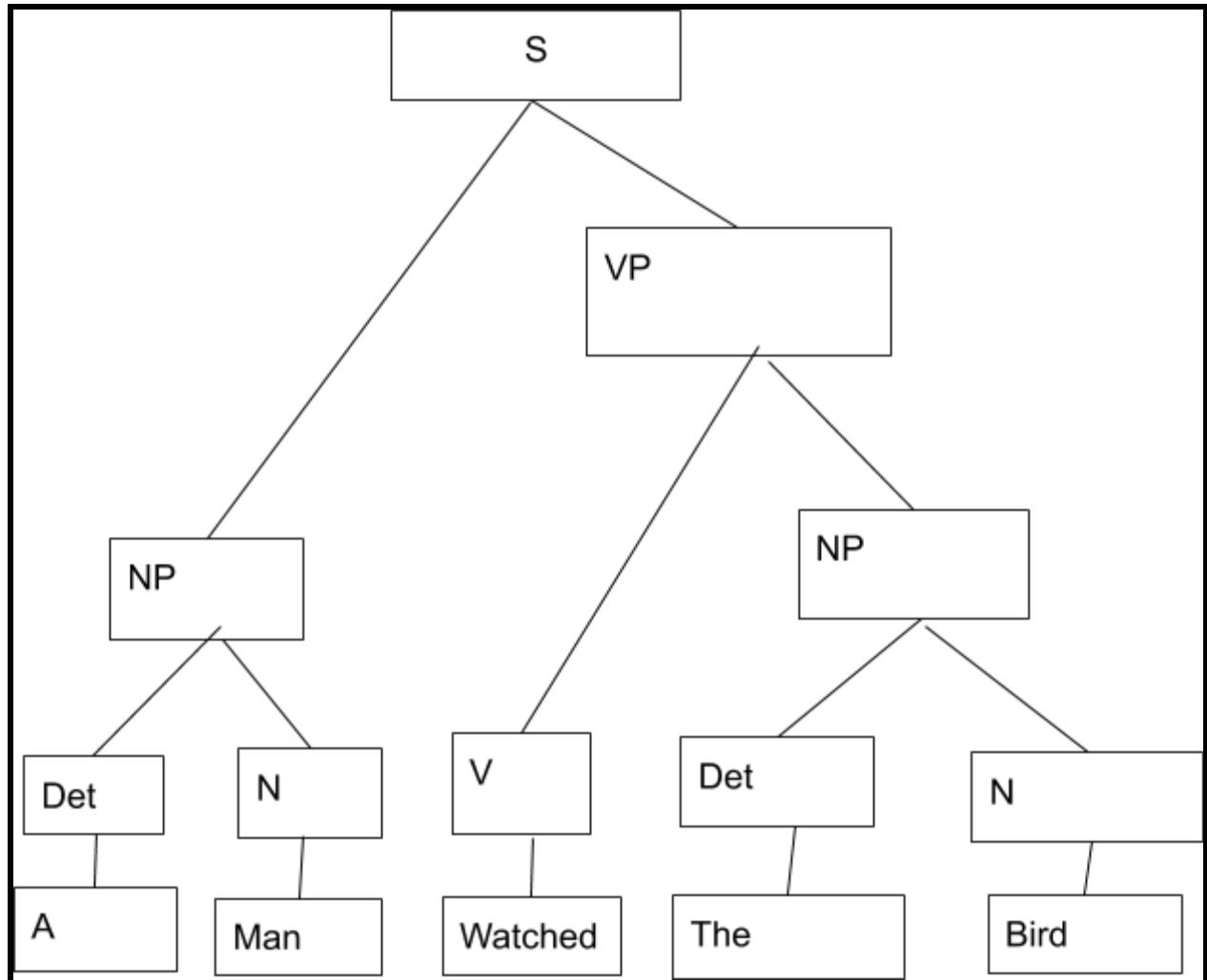
```

(S
  (NP Birt)
  (VP
    (V watched)
    (NP (Det a) (N horse) (PP (P in) (NP (Det the) (N woods))))))
(S
  (NP Birt)
  (VP
    (V watched)
    (NP (Det a) (N horse))
    (PP (P in) (NP (Det the) (N woods))))))

```



Sentence: 'A man watched the bird'



No, it will not. For the English language, more than one term that is considered a sentence will have been parsed.