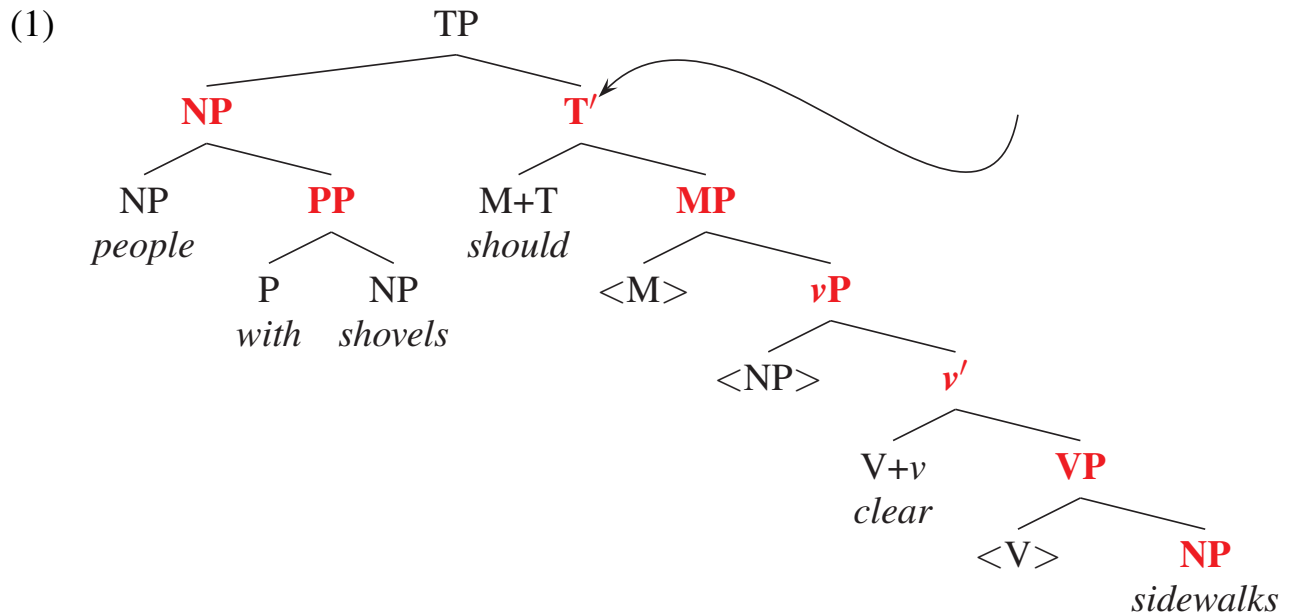


**Budget your time. 30 points total. 80 minutes.**  
The number of points assigned to each part is indicated by a number in brackets.

1. [8] Fill in the missing labels for the nodes in the tree below. Where a node is the maximal projection of a lexical item, indicate this with the standard “X-bar” notation (e.g., NP for the maximal projection of a noun,  $v'$  for an intermediate projection of  $v$ ). The sentence is *People with shovels should clear sidewalks*. The arrow is for use in question 4.



2. [6] Yes or No. In the sentence for which the structure is given in (1)...

- |  |            |
|--|------------|
| (a) Is <i>should clear</i> a constituent?                          | <b>No</b>  |
| (b) Is <i>clear sidewalks</i> a constituent?                       | <b>Yes</b> |
| (c) Is <i>sidewalks</i> a complement?                              | <b>Yes</b> |
| (d) Is <i>should</i> a specifier?                                  | <b>No</b>  |
| (e) Is <i>with shovels</i> an adjunct?                             | <b>Yes</b> |
| (f) Does the MP (that you wrote) dominate the T' (that you wrote)? | <b>No</b>  |

3. [1] **Circle one.** The verb shown in the structure in (1) above is...

ditransitive / **transitive** / unergative / unaccusative

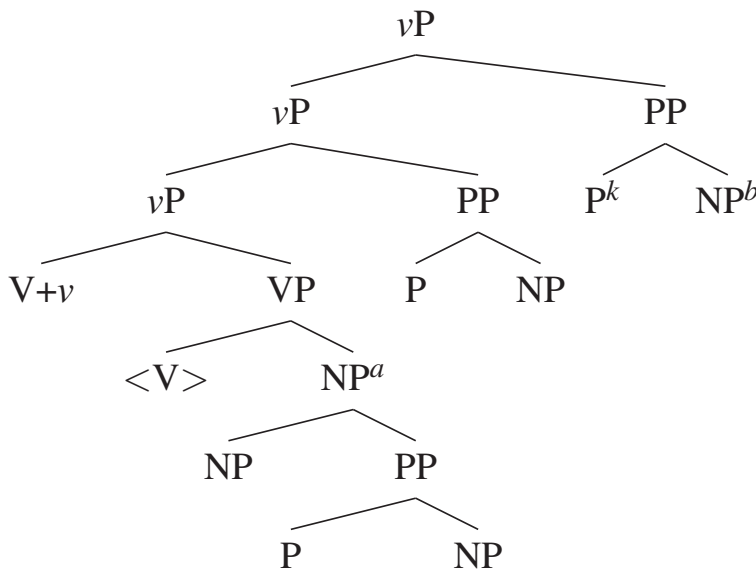
4. [1] **C-command.** The arrow in the tree above points to a node. Circle every node in the tree that node c-commands.

5. [1]  **$\theta$ -role.** Name the  $\theta$ -role that *People with shovels* has in (1). **Agent**

6. Suppose we start building a structure for a sentence, and at a certain stage we wind up with a  $vP$  as shown (abstractly) below in (2). *Note:* The superscripts are just for identification purposes—they aren't part of the structure, I just need to be able to refer to the individual nodes.

This is an unaccusative verb—it has just a Theme. There were four [ $\mu N$ ] features: one on each P, and one on V.

(2)



(a) [1] Name the  $\theta$ -role that the  $NP^a$  has. **Theme**

(b) [1] Name the operation (Merge, Adjoin, Move) that connected  $P^k$  and  $NP^b$ . **Merge**

(c) [1] How many [ $\mu N^*$ ] features were there—total—in these lexical items initially? **Four**

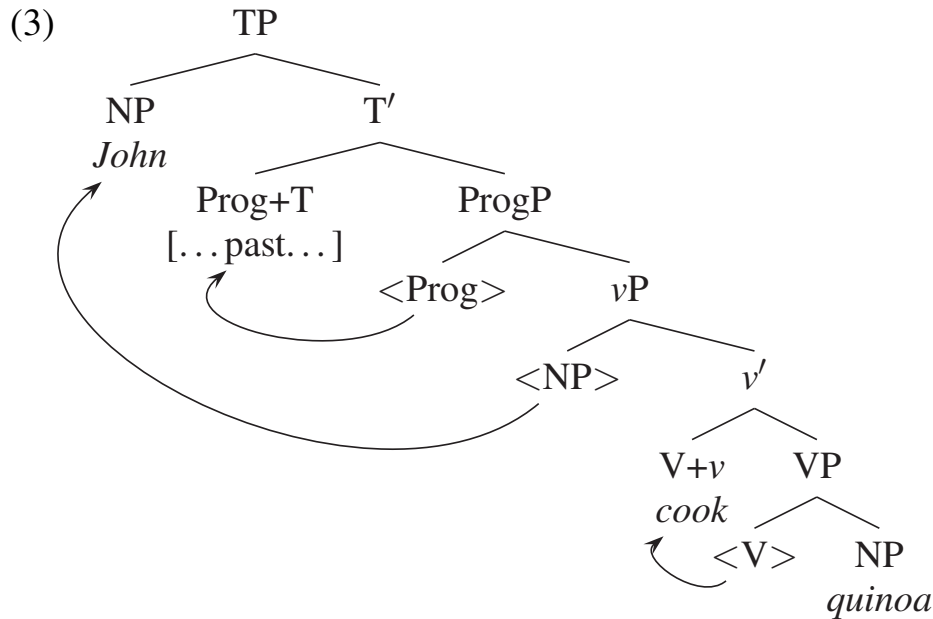
(d) [1] Which of the following three sentences might plausibly include the  $vP$  in (2)?

1. Give estimates about expenses to Pat by Friday.
2. Performers without traces of talent sang on stage.
3. **Soup with bacon boiled with vigor on TV.**

7. [1] **Circle one.** The verb shown in the structure in (2) is...

8. Suppose you had a sentence with the abstract structure given below in (3). I have provided the pronunciation of two lexical items (the NP, *John*, and the bare (uninflected) form of the verb, *cook*).

There were a couple of people who didn't quite see that Prog is a form of *be* that puts the verb in the "present participle" form (*cooking*). And for the most part, people got the motivations for Merging right. If you missed one or both of these, make sure you figure out why my answer is the right one.



(a) [1] Draw arrows in the tree that show, when things moved, where they moved from and to.

(b) [1] Write the sentence that this would be the structure for.

**John was cooking quinoa.**

(c) [1] What was the motivation to Merge *v* and VP?

**The Hierarchy of Projections—*vP* was finished, Prog was next on the Hierarchy.**

(d) [1] What was the motivation to Merge T' and NP (*John*)?

**EPP, strong [*uN\**] feature of T**

**9. [2] Binding Theory I.** Consider the sentence in (4), which is “trying to mean” *John told himself that Mary didn’t omit him (John) intentionally*, and answer the questions about it listed below.

(4) \*  $He_i$  told  $John_i$  that Mary didn’t omit  $himself_i$  intentionally.

(a) [1] Which noun phrase(s) bind *John* in (4)? ***He—and not himself.***

(b) [1] Which Principle of Binding Theory is *not* violated in (4)? **Principle B.**

**10. [2] Binding Theory II.** Now consider the sentence in (5), which is “trying to mean” *Mary convinced herself that she (Mary) would win*, and answer the questions about it listed below.

(5) \*  $Mary_i$  convinced  $her_i$  that  $herself_i$  would win.

(a) [1] Which noun phrase(s) bind *herself* in (5)? ***Mary and her.***

(b) [1] Which Principle of Binding Theory is *not* violated in (5)? **Principle C.**

The thing to remember (for any question that asks about “binding”) is that “binding” is *defined* like this:  $X$  binds  $Y$  if  $X$  c-commands  $Y$  and  $X$  is co-indexed with  $Y$ . In particular, the binding domain does not enter into it—binding occurs no matter what the binding domain is. However, the Principles of Binding Theory do care about the binding domain.