

# Problem Set 3

Due September 18 before class. Submit on LumiNUS > Files > Student Submission > PS3.

## 1. Dragons

It is possible to build the sentences in (1) using the lexicon in (2), with the rules Merge and  $\text{Move}_{\text{phrase}}$  as defined in PS2.

- (1) a. All the dragons will arrive.  
b. The dragons will all eat wantan mee.
- (2) a. the dragons = [N] (pretend this is one word)  
b. wantan mee = [N] (pretend this is one word)  
c. all = [N; uN]  
d. arrive = [V; uN]  
e. eat = [V; uN]  
f. will = [T; uN\*]  
g. [*v*]  
h. [*v*; uN]

For each sentence in (1), (i) draw a tree with nodes numbered and (ii) give the sequence of Merge and  $\text{Move}_{\text{phrase}}$  operations used to build the sentence.

Remember that every sentence must have the sequence  $T > v > V$  (The Hierarchy of Projections). Notice that there are two options for *v* in (2). You will have to choose the appropriate one for each sentence.

## 2. A problem with quantifier float

The sentence in (3) is ungrammatical in English, but our current system using the words in (2) above will be able to generate it. Explain what the problem is.

- (3) \* The dragons will arrive all.

(Hint: What kind of intransitive verb is *arrive*?)

(No extra R problem for this ps.)