

**CS-5340/6340, Written Assignment #1**  
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1. (40 pts, 1/2 pt per word) For each sentence below, label each word with its correct part-of-speech (POS) tag based upon the word's use in the sentence. Punctuation should be ignored.

- (a) Dan slid sideways down the hill and broke out in laughter.

**Solution:** Dan/NOUN slid/VERB sideways/ADV down/PREP the/ART hill/NOUN and/CONJ broke/VERB out/PART in/PREP laughter/NOUN

- (b) Children may like candy but eating sugary foods is unhealthy.

**Solution:** Children/NOUN may/MOD like/VERB candy/NOUN but/CONJ eating/VERB sugary/ADJ foods/NOUN is/VERB unhealthy/ADJ

- (c) My brother did not plan to take sleeping pills although he got no sleep yesterday.

**Solution:** My/POSSPRO brother/NOUN did/VERB not/ADV plan/VERB to/INF take/VERB sleeping/GER pills/NOUN although/CONJ he/PERPRO got/VERB no/ADJ sleep/NOUN yesterday/ADV

- (d) He often snores like an aardvark.

**Solution:** He/PERPRO often/ADV snores/VERB like/PREP an/ART aardvark/NOUN

- (e) Mary ran inside after rain began to fall.

**Solution:** Mary/NOUN ran/VERB inside/PREP after/CONJ rain/NOUN began/VERB to/INF fall/VERB

- (f) The armed man took off when police showed up.

**Solution:** The/ART armed/ADJ man/NOUN took/VERB off/PART when/CONJ police/NOUN showed/VERB up/PART

- (g) The kittens sleeping in her lap are very young.

**Solution:** The/ART kittens/NOUN sleeping/VERB in/PREP her/POSSPRO lap/NOUN are/VERB very/ADV young/ADJ

- (h) She just completed a singing competition, which could make her a star.

**Solution:** She/PERPRO just/ADV completed/VERB a/NOUN singing/GER competition/NOUN, which/RELPRO could/MOD make/VERB her/POSSPRO a/ART star/ADJ

2. (20 pts) For each sentence below, indicate whether the main verb appears in an *intransitive* construction, a *transitive* construction, or a *ditransitive* construction. Only give the answer *transitive* if the usage is not *ditransitive*.

(a) The dog barked at the cat.

**Solution:** transitive

(b) The man fed the squirrels peanuts.

**Solution:** ditransitive

(c) Susan slept for ten hours.

**Solution:** intransitive

(d) George broke the window with his fist.

**Solution:** transitive

(e) Mary loaned her neighbor a bicycle for a week.

**Solution:** ditransitive

(f) Ted donated five hundred dollars to his favorite charity.

**Solution:** ditransitive

(g) Wilma married Fred in a rock quarry.

**Solution:** transitive

(h) Sam bought flowers for his mom.

**Solution:** ditransitive

(i) The cat frequently sits on the front porch.

**Solution:** transitive

(j) She gave a raise to her best employee for his great work.

**Solution:** ditransitive

3. (20 pts) For each sentence below, indicate whether the main verb appears in an *active* voice verb phrase or a *passive* voice verb phrase.

(a) Dr. Seuss has written many books.

**Solution:** Active voice

(b) Tim will be organizing a charity event.

**Solution:** Active voice

(c) Cathy has been hired by IBM.

**Solution:** Passive voice

(d) Walter will be evaluated for a raise in October.

**Solution:** Passive voice

(e) Tropical storm Fred has strengthened into a hurricane.

**Solution:** Active voice

(f) The battle is being fought on several fronts.

**Solution:** Passive voice

(g) The cougar was hiding in a bush.

**Solution:** Active voice

(h) The dog has been taught twenty difficult tricks.

**Solution:** Passive voice

(i) She will have achieved a record in gymnastics.

**Solution:** Active voice

(j) He should have won the award.

**Solution:** Active voice

4. (20 pts) Consider the following morphology rules and dictionary:

	Suffix	Prefix	Replacement Chars	POS of root word	POS of derived word
<i>Rule #1</i>	s	-	-	NOUN	NOUN
<i>Rule #2</i>	s	-	-	VERB	VERB
<i>Rule #3</i>	er	-	-	VERB	NOUN
<i>Rule #4</i>	-	re	-	VERB	VERB
<i>Rule #5</i>	-	anti	-	NOUN	ADJECTIVE

Dictionary	
Word	Part-of-Speech
seizure	NOUN
form	VERB

For each word below, indicate whether that word *CAN* or *CANNOT* be successfully derived as having the specified part-of-speech using the morphology rules and dictionary above:

- (a) antiseizure ADJECTIVE  
**Solution:** CAN

- (b) seizures VERB  
**Solution:** CANNOT

- (c) antiseizures NOUN  
**Solution:** CANNOT

- (d) antiseizures ADJECTIVE  
**Solution:** CAN

- (e) reforms NOUN  
**Solution:** CANNOT

- (f) reforms VERB  
**Solution:** CAN

- (g) antireform ADJECTIVE  
**Solution:** CANNOT

- (h) rereform VERB  
**Solution:** CANNOT

- (i) reformer NOUN  
**Solution:** CAN

- (j) reformers VERB  
**Solution:** CAN

**Question #5 is for CS-6340 students ONLY!**

5. (15 pts) Consider the following five subcategorization frames:

NP
NP NP
PP(against)
PP(from) PP(to)
VP(to)

For each verb below, list ALL of the subcategorization frames in the list above that should be associated with the verb. If a verb should not have ANY of these subcategorization frames, then give the answer *NONE*.

HINT: most of the verbs should have 1 or 2 of the subcategorization frames in the list above.

- (a) snore  
**Solution:** None
- (b) drive  
**Solution:** NP, VP(to)
- (c) expect  
**Solution:** NP, VP(to)
- (d) fight  
**Solution:** PP(against), VP(to)
- (e) sip  
**Solution:** NP
- (f) sing  
**Solution:** NP, VP(to)
- (g) lean  
**Solution:** PP(against), VP(to)
- (h) smile  
**Solution:** NP

(i) lend

**Solution:** NP, NP NP

Ex: He lent a book

He lent Mary a book(NP NP)

(j) increase

**Solution:** PP(from) PP(to), VP(to)