

## Quiz 8

Please enter your Full Name:
1: In Typed Lambda Calculus for computational semantics, nouns and verb phrases are usually "properties": (Ind → Bool). Adjectives modify noun meanings, so they are usually of type (Ind → Bool) → (Ind → Bool). What is the type of "very" in
"very cute", if we want "very cute" to come out as the same type of "cute"?
$ (Ind \to Bool) \to Bool $
$\square  (Ind \to Bool) \to (Ind \to Bool)$
$((\operatorname{Ind} \to \operatorname{Bool}) \to (\operatorname{Ind} \to \operatorname{Bool})) \to ((\operatorname{Ind} \to \operatorname{Bool}) \to (\operatorname{Ind} \to \operatorname{Bool}))$
None of the above
2: In Typed Lambda Calculus, which of the following operations is "renaming of variables"?
lambda extraction
beta reduction
eta reduction
alpha reduction
None of the above
3: Which of the following is the definition for "polysemy"?
Two senses of a word that do not have particular relations between them, for example, the "financial institution" and "sloping mound senses" of "bank."
Two senses of a word that are related semantically, for example, the "financial institute" and "the building belonging to a financial institution" senses of "bank."
Two senses of two different words that are (nearly) identical.
Two senses of two different words that are opposite to each other.
None of the above
4: Which of the following is an example for "meronymy"?

	couch/sofa
	mango/fruit
	fast/slow
	wheel/car
_	h of the following word pairs, A/B, has A as a hyponym of B?
	Washington/The United States
	soda/Pepsi
	Java/programming language
	wheel/car
	None of the above
_	h of the following below words, if removed, makes the remainder a synset?
_	Superordinate
	Hypernym
	Meronym
_	Superclass
[	None: the four above words already represent a synset.
	of the following pairs contains a question and an answer that was retrieved tain method. Of the methods used, which uses abductive inference?
_	Q: "When did the Wright Brothers first fly?"
A	A: "The Wright Brothers' first plane was launched in 1903." by recognizing "fly - Flight -> plane"
	Q: "When did the Wright Brothers first fly?"
A	A: "The Wright Brothers flew in 1903." by recognizing the bigram "in 1903"
_	rom a large set of search results.
	Q: "When was the Wright Brothers' first flight?"
	A: "The Wright Brothers first flight was in 1903." by using custom rewriting rules for "when was" questions and searching for the permutations.
	Q: "When was the Wright Brothers' first flight?"
A C	A: "The Wright Flyer first flew on December 17, 1903." by weighing and ombining various high-scoring N-grams in the sentences such as "the Wright" first flew" and "1903."
	h of the following is most like a frame (as opposed to a synset,
• • •	m/hypernym set, etc.)?
_	gas, petrol, oil, fuel, gasoline
	mouse, GUI, keyboard, monitor, speakers
_	sedan, car, vehicle, mode of transportation, thing
	levity, happiness, mirth, joy, joviality