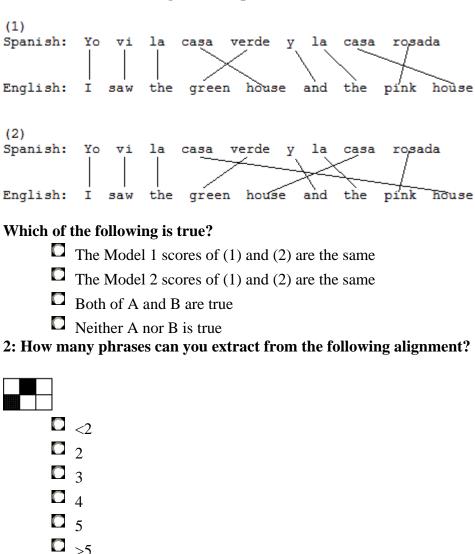


## Quiz 3

## 1: Consider the following sentence pairs:



3: What happens when the output of alignment merging is more sparse? Here is a concrete example for you to think about:

Alignment 1: (denser)

Align	ment 2: (sp	arser)
:	+	
	You ca	an extract more (or at least the same number of ) phrases from the
	denser alig	gnment
	You ca sparser ali	an extract more (or at least the same number of ) phrases from the gnment
	All of	the above
	None o	of the above
4: Wh		following statements is true?
	The so	o-called phrase-based statistical MT system does not use linguistic
	phrases.	
		Bayes classifiers make a strong conditional independence assumption obability of observing the conjunction of attributes is equal to the
	product of	the individual probabilities given the class is known.
		dependence assumption that Naive Bayes is making is too strong, it almost always fails to predict the right class.
	A and	B are true
	B and	C are true
	None o	of the above
5: Wh		following POS parses is most correct for the given sentence:
He wa		dicious person.
		N was/VBZ a/AT very/RB judicious/JJ person/NN.
	☐ He/NF	P was/VBZ a/AT very/QL judicious/JJ person/NNS.
	He/PR	P was/VBD a/AT very/QL judicious/JJ person/NN.
	He/PR	P was/VBD a/AT very/RB judicious/JJ person/NNS.
6: Wh		following is true about log-linear models for MT?
		mputing probability as an exp(sum()) over features instead of a products ual probabilities, they avoid the underflow problem of other MT
	models.	
	Their f	framework allows for the easy inclusion of arbitrary features.
	-	unfortunately require the use of a reverse translation model.

		All of the above.
		None of the above.
7: Wh		of the following is typically not a useful feature for performing NER:
		Character affixes
		Hapax legoma
		Gazeteers
		Word shape
		Stemmed lexical items
		None of the above
8: Wh		of the following is not needed to implement the Viterbi algorithm:
		Emission probabilities of outputs versus states
		Prior probabilities over the states and outputs
		Transition probabilities of states versus states
		None of the above
		example of the Viterbi algorithm in Fig. 5.18 of J&M (p. 148), we can
		the maximum transition probabilities for each of the remaining states in column, i.e., before multiplying in the emission probabilities
		NN), p("want" TO), etc. Then which of the following will not be one of the
		pre-emission probabilities assigned to one of the three remaining states,
NN, T		and PPSS:
		0.250e-5
		0.350e-5
		1.975e-5
		3.000e-5
40		None of the above
10: W	_	of the following task is considered as an information extraction task
		Temporal analysis: figuring out when the events in a text happened and how
		y relate to each other in time.
		Named entity recognition: detect and classify all proper names in a text
		Reference resolution: link and cluster mentions of named entities into sets that respond to the entities behind the mentions
		All of the above
		Ani of the above