

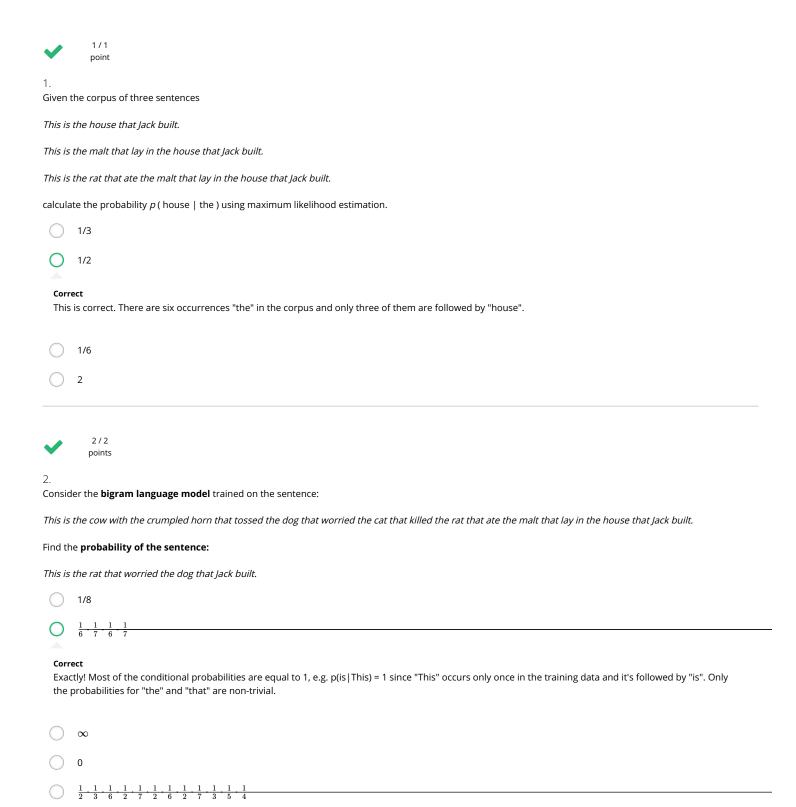
X	Try again	once you	are ready.
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Required to pass: 60% or higher

You can retake this quiz up to 3 times every 8 hours.

Back to Week 2

Retake



~	1/1 point	Language modeling Quiz, 5 questions			
3. Conside	er the trigrar	m language model trained on the sentence:			
This is t	This is the rat that ate the malt that lay in the house that Jack built.				
Find the	Find the perplexity of this model on the test sentence:				
This is t	This is the house that Jack built.				
0	\bigcirc ∞				
Corre	ect				
Yes.	Yes. The probability p (house is the) is zero.				
	1				
	1 _ 3	⁷ /Q			
	$\sqrt[7]{\frac{1}{3},\frac{1}{3}}$				
	0				
×	0 / 4 points				
4.	points				
	dd-one smo	othing to the trigram language model trained on the sentence:			
This is t	the rat that a	te the malt that lay in the house that Jack built.			
Find the	e perplexity	of this smoothed model on the test sentence:			
This is t	the house tha	at Jack built.			
Write th	ne answer wit	th precision of 3 digits after the decimal point.			
9.37	77				
lmann	wast Daswaws				
Incorrect Response Some hints for you: there are 12 unique words in train, so V=13 (because of the fake end token). The length of the test sentence is N=7 words. Use these					
values for the vocabulary size in add-one smoothing and for the root index in the perplexity respectively. And do not forget about start and end tokens!					
Your	migni need a	piece of paper to calculate this. Get back to our reading material in this module to review a similar task.			
×	0/2				
	points				
5. Find on	e incorrect st	tatement below:			
0	Trigram lang	guage models can have a larger perplexity than bigram language models.			
This	should not be	xelected.			
This should not be selected The perplexity of higher order language models without smoothing may by infinite!					
	N				
	ıv-gram lang	guage models cannot capture distant contexts.			

If a test corpus does not have out-of-vocabulary words, smoothing is not needed.

0	The smaller holdout perplexity is the better the model. Carry to keller the model of sentences of different lengths.				
₽ F					