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		⊞ English ➤ Due Jun 15, 10:59 PM CS

1.	In natural language processing, predicting the next item in a sequence is a classification problem. Therefore, after creating inputs and labels from the subphrases, we one-hot encode the labels. What function do we use to create one-hot encoded arrays of the labels?	1 point
	○ tf.keras.utils.img_to_array	
	○ tf.keras.preprocessing.text.one_hot	
	O tf.keras.utils.SequenceEnqueuer	
	tf.keras.utils.to_categorical	
2.	What is a major drawback of word-based training for text generation instead of character-based generation?	1 point
	O Character based generation is more accurate because there are less characters to predict	
	O There is no major drawback, it's always better to do word-based training	
	Because there are far more words in a typical corpus than characters, it is much more memory intensive	
	O Word based generation is more accurate because there is a larger body of words to draw from	
3.	What are the critical steps in preparing the input sequences for the prediction model?	1 point
	Converting the seed text to a token sequence using texts_to_sequences.	
	☐ Splitting the dataset into training and testing sentences.	
	▼ Pre-padding the subphrases sequences.	
	Generating subphrases from each line using n_gram_sequences.	
4.	When predicting words to generate poetry, the more words predicted the more likely it will end up gibberish. Why?	1 point
	It doesn't, the likelihood of gibberish doesn't change	
	Because the probability that each word matches an existing phrase goes down the more words you create	
	O Because you are more likely to hit words not in the training set	
	O Because the probability of prediction compounds, and thus increases overall	
5.	True or False: When building the model, we use a sigmoid activated Dense output layer with one neuron per word that lights up when we predict a given word.	1 point
	○ True	
	False	