Name:		SID:						
If the ch	P 4446 / 5046 Quiz 2 (week noices have ○ then select exactly on nswer by filling the shape, e.g., ●. If	e option. If	fthe	e choices have \square , select all cor				
1. (1	mark) Which of the following are tru	e of top-P	an	d top-K sampling? Select all tr	rue statements.			
	$\ \square$ Neither one considers the pro	bability dis	stir	bution when filtering.				
	■ They are both greedy meth							
	■ They both use randomness			•				
- 44	☐ Their filtering step is the same	•		•				
2. (1	mark) Which of the following are tru	•	ch'	? Select all true statements.				
	■ It is a library for neural netw ■ It supports training and app		طما	e				
	☐ It requires a GPU to run code		uei	5.				
	☐ It is built on top of Tensorflow							
•	mark) Consider the sentence, "Zach m "with a telescope" to "found", wha	•	•	- · · · · · · · · · · · · · · · · · · ·	a parse with an edge			
	 Zach and the people have a t 	elescope.						
	The people have a telescope							
	Zach was using a telescope							
	 None of the above options ar 	e correct.						
	Solution: 'From' and 'to' were the resither the third or fourth options.	everse of	wha	at I intended in this question.	I gave full cried to			
4. (1	mark) Which of the following are tru	e of the Vi	iterl	bi algorithm? Select all true st	atements.			
	■ It is not compatible with mo			•	uence at once.			
	☐ It cannot be used with a neur			_				
■ The standard version has a time complexity of $O(words * labels ^2)$ □ When the algorithm is halfway through, it can tell you what the first half of the output								
k is	mark) Using the lines below, implents the intended beam size. token is ch row of the grid below.	nent one s	tep	of Beam search. beam contai	ns the current beam.			
1 fo	r label in labels:		9	beam = new_beam				
	w_beam.sort(reverse=True)		0					
	w_beam.sort()		11	<pre>for option in labels:</pre>				
_	tion = item + [label] w_beam = []		3	<pre>for score, item in bea new_beam.append((score</pre>				
	w_beam - [] ore = get_score(option)		4	new_beam.append((score)	_			
7 sc	ore = get_score(token)		5					
8 sc	ore = get_score(token, opt:	ion)						

Solution: Solutions, where numbers in square brackets means those rows could occur in any order:

• 5, [1, 12], 4, 8, 13, 2, 10

Note: In the original quiz there were some typos that have been fixed in this version.

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
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