Congratulations! You passed!

Grade received 90% To pass 80% or higher

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1.	The minimum edit distance between the words <i>deep</i> and <i>creepy</i> is:	1/1 point
	4	
	Correct That's correct. You need to replace d for c, which counts for 2, insert r and insert y.	
	mats correct. To the ed to replace a for t, which counts for 2, insert / and insert y.	
2.	Which of the following is a NOT VALID example of an edit string operation?	1/1 point
	NSERT a letter: 'aple'> 'apple'	
	O DELETE a letter: 'cloack'> 'cloak'	
	SWITCH a letter 'Lusca'> 'Lucas'	
	REPLACE a letter 'Crayom'> 'Crayon'	
	Switching a letter is a valid operation ONLY when switching adjacent letters! In this case there were two	
	switches: switch s and c and after s and a.	
3.	Autocorrect is only appliable when dealing with misspelled words.	1/1 point
	False	, ,
	○ True	
	 Correct That's right, autocorrect can also be used for words that does not make any sense for a particular 	
	sentence. For instance, `Happy birthday deer friends' is a correct spelled sentence, but the word `deer' and the sentence is a correct spelled sentence, but the word `deer' and `deer' are the sentence is a correct spelled sentence. For instance, `Happy birthday deer friends' is a correct spelled sentence, but the word `deer' are the sentence is a correct spelled sentence. The sentence is a correct spelled sentence is a correct spelled sentence, but the word `deer' are the sentence is a correct spelled sentence is a correct spelled sentence. The sentence is a correct spelled sentence is a correct s	
	makes no sense – it should be dear .	
4.	Given the corpus:	1/1 point
	"I am happy because I am doing quizzes."	
	Based on this tiny corpus, consider the following sentence:	
	"I sm very good at solving quizzes."	
	Which of the following is true?	
	It is not possible to decide a correction for the misspelled word "sm".	
	There is a unique correction for the misspelled word "sm".	
	There is more than one possible candidate for a correction to the misspelled word "sm".	
	The corpus is too tiny, so it is not possible to build a probabilistic model for autocorrection.	
	That's correct! The correction would be the word "am".	
5.	About the probabilistic model defined in the lecture, select all that apply.	1/1 point
	Words with the same probability in the corpus will be equally likely to be candidates for a possible word correction.	
	Replacing a character costs more than deleting a character.	
	Correct This is correct, replacing a word costs 2 whereas deleting it costs 1.	
	ightharpoonup If $C(w)$ is the number of times a word appear in a corpus and V is the corpus size, then the probability of	
	the word w in the corpus is $P(w) = \frac{C(w)}{V}$.	
	This is correct.	
	▼ The sentence "Happy birthday deer friends" would not have any word corrected in the model defined in the	
	lecture.	
	⊘ Correct	
	This is correct. Since the model just looks at misspelled words, the above sentence would not be corrected.	
6.	Suppose we build a distance matrix D for the following case:	0 / 1 point
	Source: Pie> Target: Bye	
	What is the value for D[3,2]?	
	4	
	⊗ Incorrect	
	Please, revise the concepts introduced in the Minimum edit distance algorithm video.	

7.	About the Minimum edit distance algorithm, select all that apply. Let D be the distance matrix, for two words of same size. The matrix size is n .	1 / 1 point
	lacksquare D[0,i] > D[0,j] if $i>j$.	
	 Correct This is correct, the first line will always have increasing values as we move to the right because it is the cost from editing the null string. 	
	$\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ $	
	$\begin{tabular}{ll} \square $D[i,j] = min(D[i-1,j] + \text{del_cost}, D[i,j-1] + \text{ins_cost}, D[i-1,j-1] + \text{rep_cost})$ \\ \end{tabular}$	
	The algorithm avoids usage of brute force by implementing a dynamic programming approach.	
	 correct That's correct. Using previous computed cells to compute another one is a dynamic programming method. 	
8.	About the minimum edit distance, which of the following statement is not true?	1/1 point
	O It is used to evaluate similarity between two strings.	
	It is used to check if a word is misspelled.	
	It counts the minimum number of edits to transform one string into another. It is used to implement spelling correction, document similarity and machine translation.	
	 Correct Correct! It is a measure between two strings and not a method to decide if a string is misspelled or not. 	
9.	The minimum edit distance calculation is more computationally intensive if we have a big corpus.	1/1 point
	O True	
	False	
	 Correct That's correct. The minimum edit distance depends only on the editing cost and the two words that are being considered and not on any corpus or vocabulary. 	
10. Given the corpus "Autocorrect is a powerful tool and it is used on our computer."		1/1 point
	The value for $P(\mathrm{is})$ is:	
	The answer should have two decimal places (rounding up, if necessary). For example: 0.88888 should be	
	answered as 0.89.	
	0.17	
	⊙ Correct That's correct!	