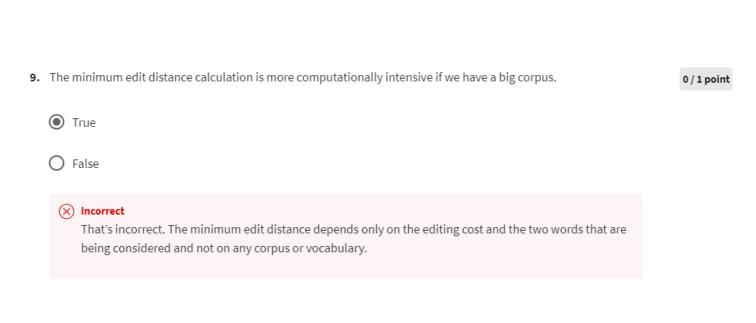
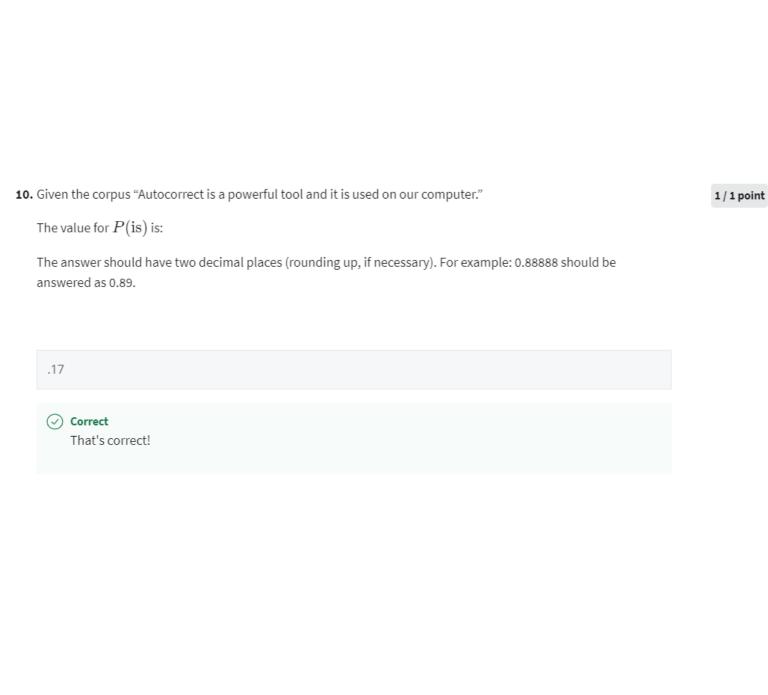
2.	Which of the following is a NOT VALID example of an edit string operation?
	O INSERT a letter: 'aple'> 'apple'
	O DELETE a letter: 'cloack'> 'cloak'
	SWITCH a letter 'Lusca'> 'Lucas'
	REPLACE a letter 'Crayom'> 'Crayon'
	○ Correct Switching a letter is a valid operation ONLY when switching adjacent letters! In this case there were two switches: switch s and c and after s and a.

1 / 1 point

3.	Autocorrect is only appliable when dealing with misspelled words.	1 / 1 point
	False	
	O 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'	

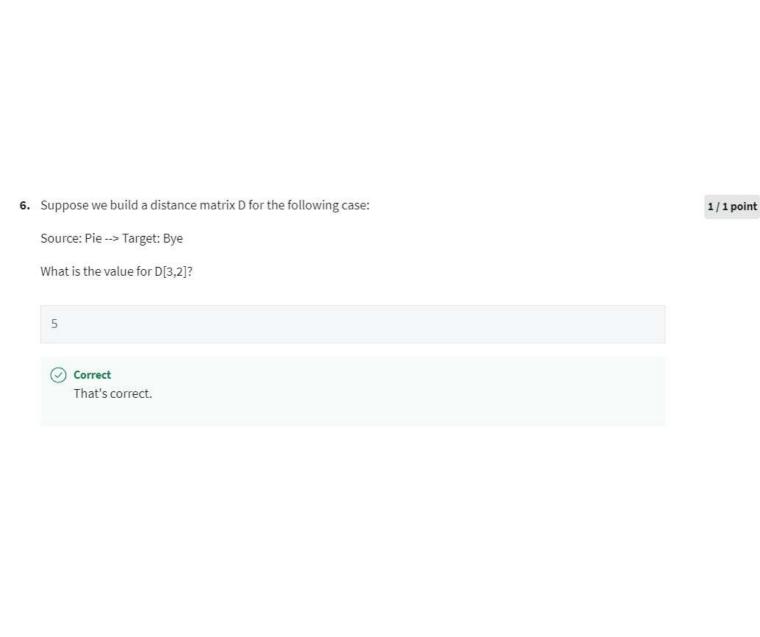
makes no sense – it should be dear.





The n	ninimum edit distance between the words <i>deep</i> and <i>creepy</i> is:
4	
\odot	Correct That's correct. You need to replace d for c , which counts for 2, insert r and insert y .

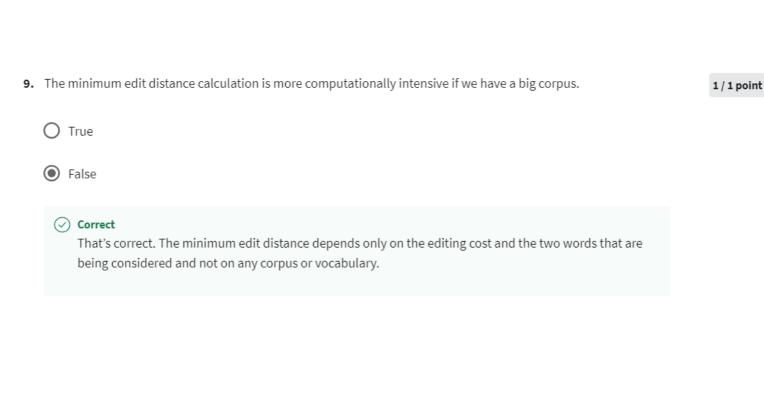
1/1 point

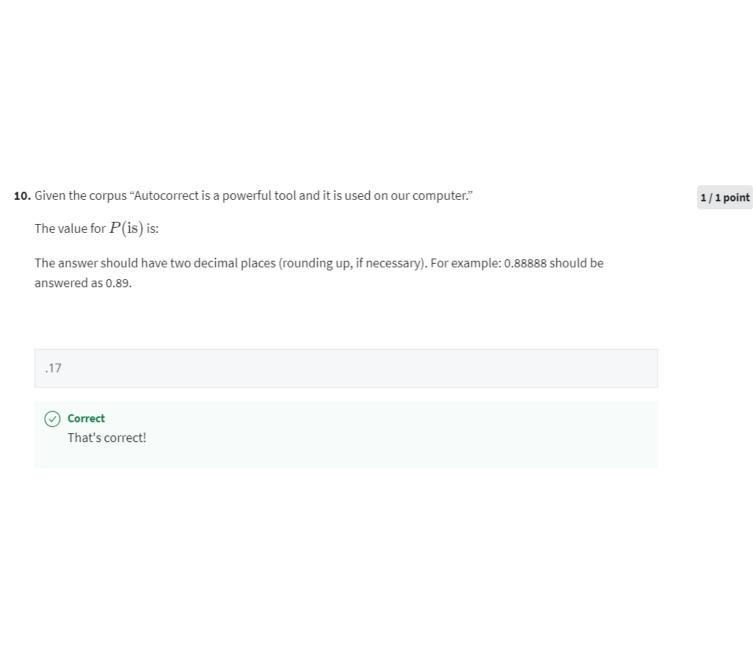


About the minimum edit distance, which of the following statement is not true?
O It is used to evaluate similarity between two strings.
It is used to check if a word is misspelled.
O It counts the minimum number of edits to transform one string into another.
O It is used to implement spelling correction, 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.

8.

1 / 1 point





5.	About the probabilistic model defined in the lecture, select all that apply.
	☐ 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.
	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 $P(w) = \frac{C(w)}{V}$.
	✓ Correct 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.

1 / 1 point

7.	About the Minimum edit distance algorithm, select all that apply. Let ${\it D}$ be the distance matrix, for two words of
	same size. The matrix size is n .

1/1 point

- D[0,i] > D[0,j] if i > j.

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.

- $\ \ \square$ $\ D[n,n]$ stores the highest value in the matrix.
- $\begin{tabular}{|c|c|c|c|}\hline D[i,j] = min(D[i-1,j] + \text{del_cost}, D[i,j-1] + \text{ins_cost}, D[i-1,j-1] + \text{rep_cost})\\ \hline \end{tabular}$
- ▼ 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.