1/1 point

Grade received 90% **Latest Submission Grade** 90% **To pass** 80% or higher

- - False

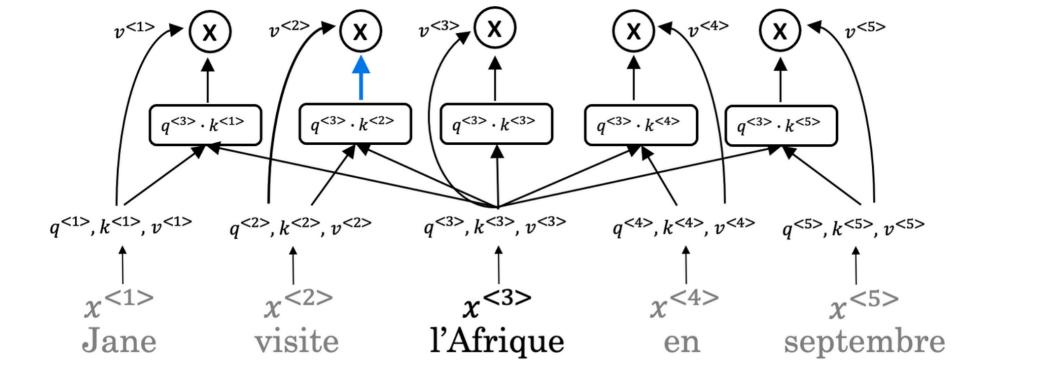
 - True

1. A Transformer Network, unlike its predecessors RNNs, GRUs and LSTMs, can process entire sentences all at the same time. (Parallel architecture).



A Transformer Network can ingest entire sentences all at the same time.





\bigcirc	Given a word, its neighbouring words are used to compute its context by taking the average of those word values to map the
	Attention related to that given word.

- Given a word, its neighbouring words are used to compute its context by summing up the word values to map the Attention related to that given word.
- Given a word, its neighbouring words are used to compute its context by selecting the highest of those word values to map the Attention related to that given word.
- Given a word, its neighbouring words are used to compute its context by selecting the lowest of those word values to map the Attention related to that given word.

Expand

Correct

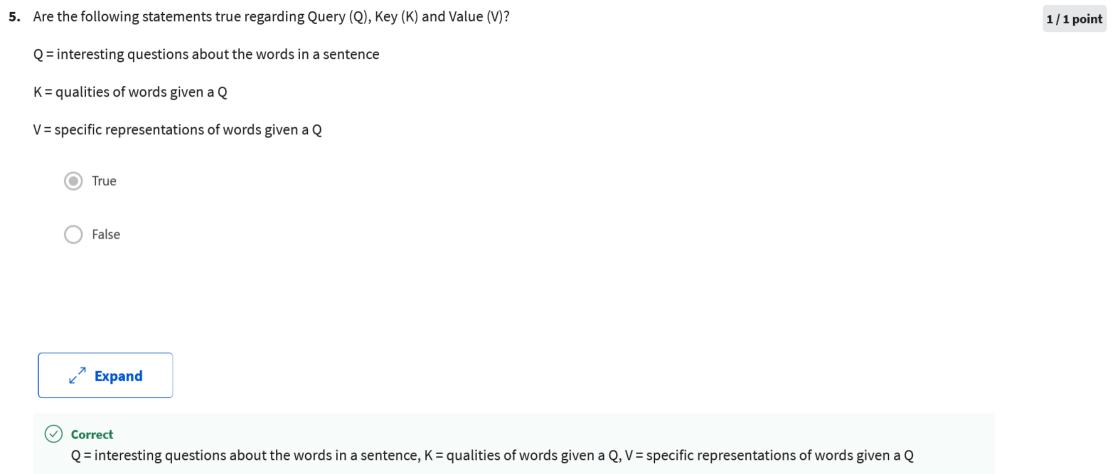
1/1 point

O v

4. What letter does the "?" represent in the following representation of *Attention*?

∠ Expand

Correct k is represented by the ? in the representation.



What does i represent in this multi-head attention computation?

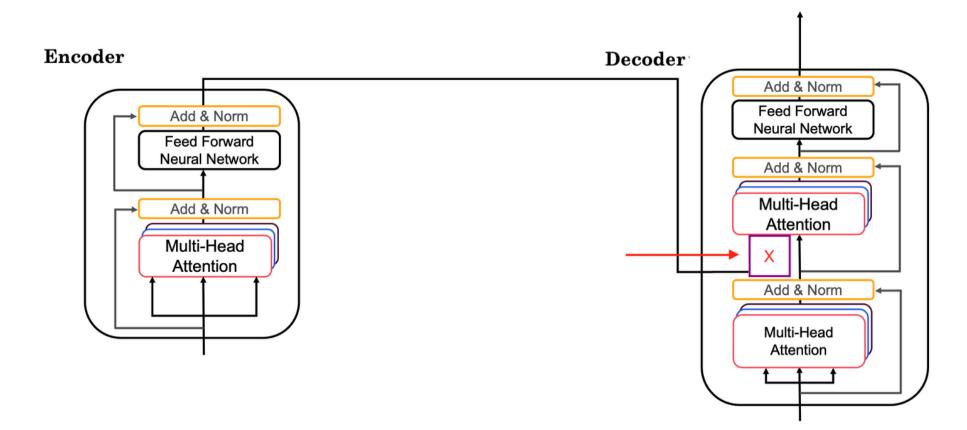
- The computed attention weight matrix associated with the *ith* "word" in a sentence.

The computed attention weight matrix associated with the order of the words in a sentence

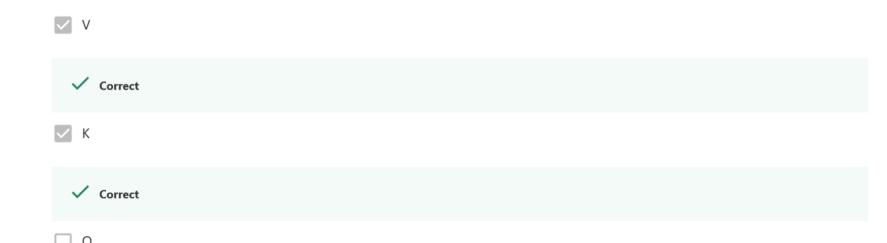
- The computed attention weight matrix associated with specific representations of words given a Q
- The computed attention weight matrix associated with the *ith* "head" (sequence)

Expand

Correct i here represents the computed attention weight matrix associated with the "head" (sequence).



What information does the Decoder take from the Encoder for its second block of Multi-Head Attention? (Marked X, pointed by the independent arrow)

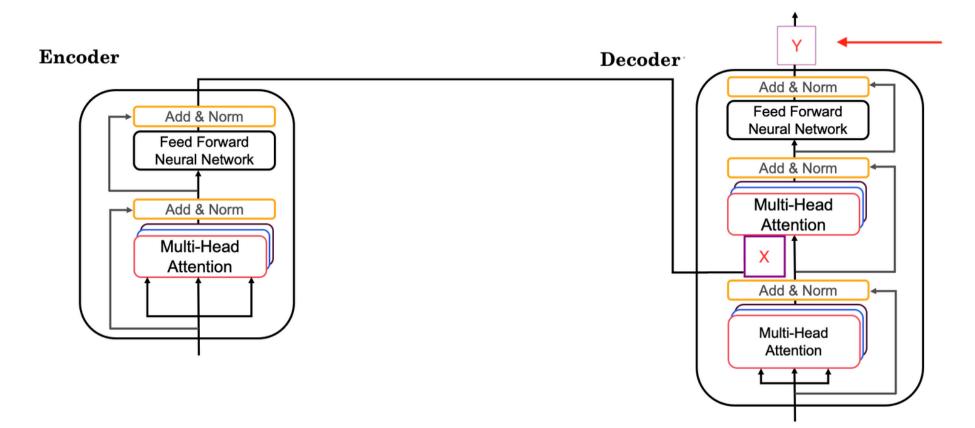


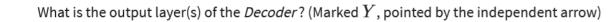
(Check all that apply)





CorrectGreat, you got all the right answers.





Linear layer followed by a softmax layer.

Linear layer

Softmax layer

Softmax layer followed by a linear layer.

∠⁷ Expand

⊘ Correct

9.	Which of the following statements is true about positional encoding? Select all that apply.	0 / 1 poi
	Positional encoding is used in the transformer network and the attention model.	
	Positional encoding uses a combination of sine and cosine equations.	
	Positional encoding provides extra information to our model.	
	Correct This is a correct answer, but other options are also correct. To review the concept watch the lecture <i>Transformer Network</i> .	
	Positional encoding is important because position and word order are essential in sentence construction of any language.	
	 Correct This is a correct answer, but other options are also correct. To review the concept watch the lecture <i>Transformer Network</i>. 	



You didn't select all the correct answers

1/1 point





Great, you got all the right answers.