START OF QUIZ
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Question 1

Topic: Lecture 7
Source: Lecture 7

What is the purpose of an inverted index? (1)

Question 2

Topic: Lecture 5
Source: Lecture 5

Why can we represent a rank-m matrix as the sum of m rank-1 matrices *or* the product of an n x m matrix and an m x n matrix (ie, what is matrix multiplication doing that we can take advantage of?)? Explain. (2)

Question 3

Topic: Lecture 8
Source: Lecture 8

What do we mean by interpolation? (1)

Question 4

Topic: Lecture 8
Source: Lecture 8

In class, I mentioned that high k value for BM25 TF weigthing rewards documents with many, many instances of a term in them. Explain why that's the case. (2)

Question 5

Topic: Lecture 5
Source: Lecture 5

The Frobenius norm looks very similar to a distance metric we've already observed. Explain which one. (1)

Question 6

Topic: Lecture 7
Source: Lecture 7

Define P@R. (1)

Question 7

Topic: Lecture 6
Source: Lecture 6

Why can't we just run an HMM over documents to discover the latent states like we do for POS-tagging? (1)

Question 8

Topic: Lecture 6
Source: Lecture 6

Imagine we performed LDA on the classes in this block. What might their [Beta / Theta] distributions look like? (2)

Question 9

Topic: Long
Source: Lecture 5

Imagine that we are working with a language other than English, such as Indonesian, with significant agglutinative morphology (words are inflected through the concatenation of affixes to a lemma). How do you think that this would impact our various vector space models? Which of them would be most affected, and which would be least affected? Explain. (3)

END OF QUIZ