Lesson 23 (Bag of Words) Term (word) Frequency (TF) is the word count of a word in a document, normalized by the total number of words in the document. Consider the corpus consisting of documents that are the sentences listed below. Fill in the tables below after removing stop words. Sort words in alphabetical order. Leave zero values blank.

Document		unique unds so	A The ale	phohetic orde -
2 1	The car crashed long ago. The car has rusted.	7	100	
3 2 3 3	2   A rusted car is unsafe. 3   Spare car parts are needed urgently.	don't went to -	f:ll O's	for empty

## (a) Document Term Matrix:

terms (words)	oro	car	Crashed	long	needed	parts	nusted	spare	unsate	westly
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3					l	(		(		1

## (b) TF (Term Frequency):

	terms (words)	oro	car	Crashed	long	needed	parts	nusted	spare	msate	wgently
4	Document 0	74	1/4	1/4	44		1			,	
2	1		1/2					1/2			
3	2		1/3					1/3		1/3	
5	3		1/5			1/5	1/5		1/5		1/5