Find the best song for this phrase!

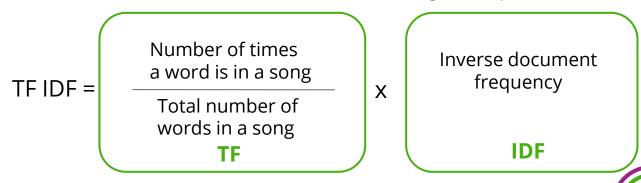
Don't break my heart

Q

Step 1) Find the IDF for each word in the phrase

Word	DONT	BREAK	MY	HEART	
IDF					

Step 2) Calculate the TF-IDF for each of the songs Find the word count and total word count for each song on the posters!



Step 3) Calculate the total TF-IDF for each song using the tables below! The highest score is the best match!

Song 1: Dance the night

ne best match!

Total word count:

	Word Count	TF Word Count Total word count for song	IDF (from step 1)	TF-IDF (TF x IDF)
DONT				
BREAK				
MY				
HEART				
	(2)	1	Total TF-IDF (Sum of TF-IDF)	

S	on	q	2:	FI	O	W	er	S

Total	word	count:	
		~ ~ ~	

	Word Count	TF Word Count Total word count for song	IDF (from step 1)	TF-IDF (TF x IDF)
DONT				
BREAK				
MY				
HEART				
			Total TF-IDF (Sum of TF-IDF)	

Song 3: Let it go

Total w	ord co	unt
i Otal W	ora co	un.

	Word Count	TF Word Count Total word count for song	IDF (from step 1)	TF-IDF (TF x IDF)
DONT				
BREAK				
MY				
HEART				
			Total TF-IDF (Sum of TF-IDF)	

Song 4: September

Total word count:			
	Tota	word	count

	Word Count	TF Word Count Total word count for song	IDF (from step 1)	TF-IDF (TF x IDF)
DONT				
BREAK				
MY				
HEART				
			Total TF-IDF (Sum of TF-IDF)	

Song	5 :	Sha	ke	it	off
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Total	word	count:	

	Word Count	TF Word Count Total word count for song	IDF (from step 1)	TF-IDF (TF x IDF)
DONT				
BREAK				
MY				
HEART				
			Total TF-IDF (Sum of TF-IDF)	

Song 6: We don't talk about Bruno

Total word count: _____

	Word Count	TF Word Count Total word count for song	IDF (from step 1)	TF-IDF (TF x IDF)
DONT				
BREAK				
MY				
HEART				
			Total TF-IDF (Sum of TF-IDF)	

	Total TF- IDF
Dance the night	
Flowers	
Let it go	
September	
Shake it off	
We don't talk about Bruno	

Best suggestion!

Largest TF-IDF Score
Best Song Title