

Information Retrieval

Assignment 2

Due: Tuesday, 22th April.

1. (3 Points) What is the basic purpose of Information Retrieval?.
2. (3 Points) Shortly explain two matrices to measure Information Retrieval systems quality.
3. (3 Points) Describe the process of Inverted index construction.
4. (6 Points) Consider the Inverted index technique, What is the meaning of the following terms:
 - a. Dictionary.
 - b. Posting.
5. (3 Points) Write an algorithm to intersect two posting lists.
6. (3 Points) What is the Boolean query, Extend Boolean query, and if both still in use give an example.
7. (3 Points) Consider the following terms with its frequency, how would we optimize the showed Query.

Term	Freq	
eyes	213312	(tangerine OR trees) AND (marmalade OR skies) AND (kaleidoscope OR eyes)
kaleidoscope	87009	
marmalade	107913	
skies	271658	
tangerine	46653	
trees	316812	

8. (6 Points) Describe two techniques to enable Phrase queries, then explain the advantage/disadvantage of each.