AN2 (3) Sahil Tindel Advantago: Lookup is Jaster Disadventage: Cannot handle wild card queries easily. vocabular term from which it was
derived because of the \$ terminal howe given voor same permutern vocaleulery if we don't me f. (c) Soud (d) For trigram, we would forterm: fre & take intersection. The derin Grandidución "The term "recurred" would match the bolean query but not permutern query @rchies

(e) Jacuard Coeff (A,B) Færa biggamindex ig
bar :- ba, an
barbæic= ba, an, nb, ba, an, rije
Removing repetition, (barbacies) = 2 ba gar to (bar barbaric) = 7 ba, ar, rb, & rije Jaccard coeff = 2 = 0-4. Readingtime jour collection of data from dirk: = (no-oftoken) (bytes pertoken) \* (fine for transfer cach byte) + dish time.  $=(4\times10^{7})(8)(2\times10^{-8})+5\times10^{-3}$ 6.4 + 0.005 = 6.4058

@rchies

	Date/
	Page
	Total southy time = ( no of blocks of NlogN) (time for low level operator)
(b)	Total sorting time = ( no of blocks to Nearly the long
	low lovel
	Operaton
7,	= (20) (NlogN) (10-8)
	= 2 x 10 <sup>-+</sup> x N lg N
	where N = no of documents  (not given inques)
	(not given i auch)
	The state of the s
(	e) Total time for veriling sorted blocks to disk
	= (Noof blocks) (time to weight singleblock)
1	( )
2	- where
	time to write & ingle block = (No of term, her block + M), of
	position in early blook) * ( inter of tearmid)*
	positing in each block = (No ofterm perblock + No of  positing in each block) * ( Eige of termid)*  ( how to transfer 1 byte data).
	5 C
=	(20) (250000 + 48 4x10+ (4)(2x10-8)
	20
	(25 + 4000)(4)(2)
	- 32200 seronds.
	= > CLOUSCIONOS.

Orchies

(d) Assuming buffer dorcach block to Contain Tom of the bolder content. then, required time = disk seek fine + time for reading partofswild

posix lists forondisk

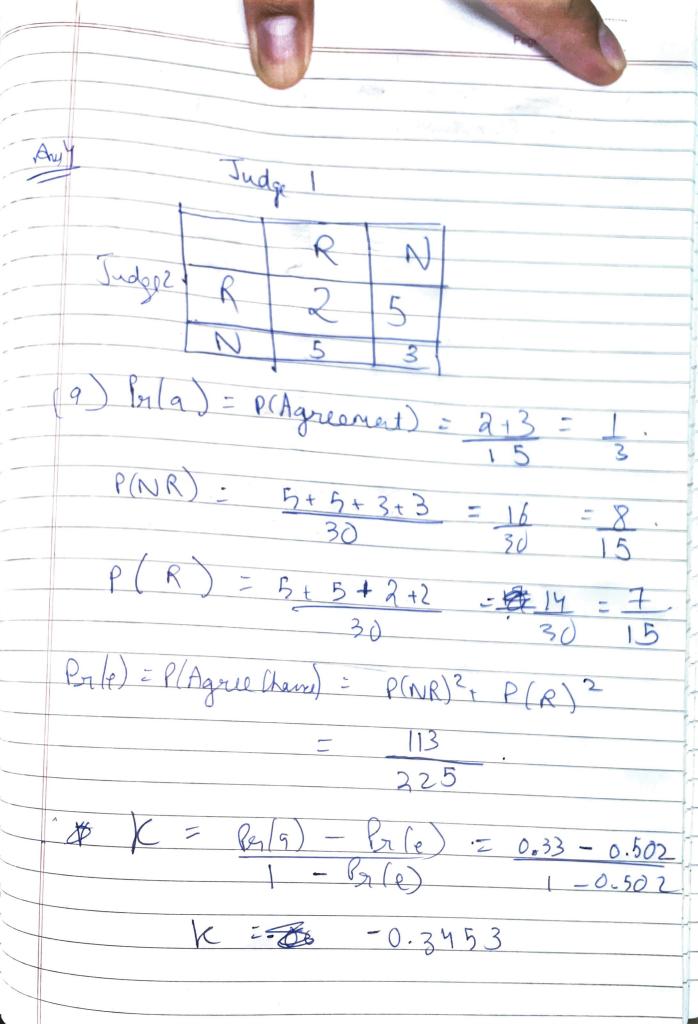
+ time for writing final index. how, disk seektine = (No of block)# (fine to readfull block given we share I'm of block)\* (my seek home) \* 2 10 time fortaciding part of sorted post list

= time for weating final index

= (no of terms) + total posting)

\* (size of termid) \* (time to transfer

singble byte). -. regdhine = 204 ( 4 x 107 x 8 x 2x 10 x 10) 



Retrieved = 4,5,6,7,3 &

Precision = Relevant

Precision = Relevant Retrieved Recall Relevant 1. 2: 3,4,5,6,7,8,9,10, Prerision = 6 = 1

Reall = 6 = 1

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Bonus We can show results for different queries to users of opinions alout the relevance of the We will show them various results of in the result by our IR system. Thornay we will get the relevance of then we it to to to find score of cever IR system @rchies