MILD CARS QUERIES

WILDCARD QUERIES SUCH AS

Mont or *mon ARE EASY To

DO WITH PREFIX SEARCH:

o LA = find all do coments containing words starting with X

SIMPLE PREFIX SEARCH

AB = find 8/1 decoments containing words
ording in B

PRÉFIX SEARCH, BUT YOU HAVE TO CONSINCT A ONTA STRUCTURES CONTAINING THE REVERSE OF EACH TERM

BUT WHAT IF WE SEARCH FOR

X & B?

· Solution 1

PREFIX SEARCH X + PREFIX SEARCH * B AND INTERSECT THE RESULTING LIST EXIENSIVE)

EVEN WORSE IF WE SEARCH FOR SOMETHING LIKE: X*B AND X*Y COMBINATIONS DD

. Solution 2

PERMUTEX INDEX

IT TOANSFORMS THE WILDGARD QUERY SO THAT THE * OCCUR AT THE END.

CONSTRUCTION AND USING THE PERMITER INDEX

1) For every term in our lexicon, index it under all possible rotation of the word with the Special char \$

EXAMPLE

Hello is indexed by:

Hellot, ellott, lloste, lostel, ostell, stells NOTE: Permuleur index size ~ 4. lexicon size

2) when quering for X*B, the search is reduced to a presize search of the rotited query B\$ X*

How to do it?

· X -> X\$ CASO BASE

· X* -> X* \$ -> \$X*

· *X -> *X\$ -> X\$*

• *×* -> * ×* \$ -> ×* \$* ? _> <u>×</u>*

×*4 -> ×*4\$ -> *4\$X-> 4\$X*

· X*7*2 -> lookup for >\$X*, Then motion with 25*