EDIT DISTANCE

15 A WAY THE EDIT DISTANCE TO QUANTIFY HOW DISSIMILAR TWO STRINGS ARE 1 BY COUNTING THE MINIMUM NUMBER OF OFERATIONS REQUIRED IS TRANSFORM ONE STRING INTO THE OTHER, THE POSSIBLE OPERATIONS ARE: INSERTION, DELETION, REPLACEMENT AND TRANSCOSITION. THET ARE TOPICKLLY DONE AT CHAR-LEVEL

EXAMPLES

USING Z REPLACES ED (CATIACT) = 2 NOTE - ACTUALLY WE CAN ACHIEVE I, IF WE ARE ABLE TO TRANSPOSE

USING 3 REPLACES ED ((MT , Dob) = 3

(FENERALLY IMPLEMENTED WITH DINAMIC PROGRAMMING

ED
$$(S1, S2) =$$
 $S=0$
 $S=0$

THE COST IS (1511.1521),

MARING THIS APPROACH QUITE

EXPENSIVE FOR OUR NEEDS.

NOUR PROBLEM

IN ONDER TO DO [SONTED WORD CORRECTION]

WE ARE CIVEN A LEXICON (DIZIONARIO)

AND A CHAR SEQUENCE Q | AND WE WOULD LIKE

TO RETURN TO THE USER THE WORDS

IN THE LEXICON CLOSSST TO Q

WED, APPROXIM

SO, VIVEN A QUERT Q, WE WOULD WANT TO ENUMERATE ALL CHARS JEQUENCE WITHIN A PRESET EDIT DISTANCE WITH THE AND INTERSECT THIS SET WITH THE AND INTERSECT THIS SET WITH THE AND CONCECT! WORDS THAT WE OWN

BRUTE FORCE???
THE LEXICON
IS USUALLY
IS HOUSE

THE NUMBER OF COMPUTATIONS IS THE WEIGHTED EDIT DISTANCE.

LIKE NOMAL EDIT DISTANCE, BUT THE OPERATIONS ARE WEIGHTED DEPENDAGE THE CHARS INVOLUED

EXAMPLE

IT IS MORE COMMON TO MISS-TYPE A M TO A _ THEN TO A 9 , THEFORE IT IS A PREFERED OPERATIONS

- · Now it is required a weighted milrix SS INPUT (MORE SIACE)
- · We have to modify the classif Dynamic Programming stor To handle weights (Todious)