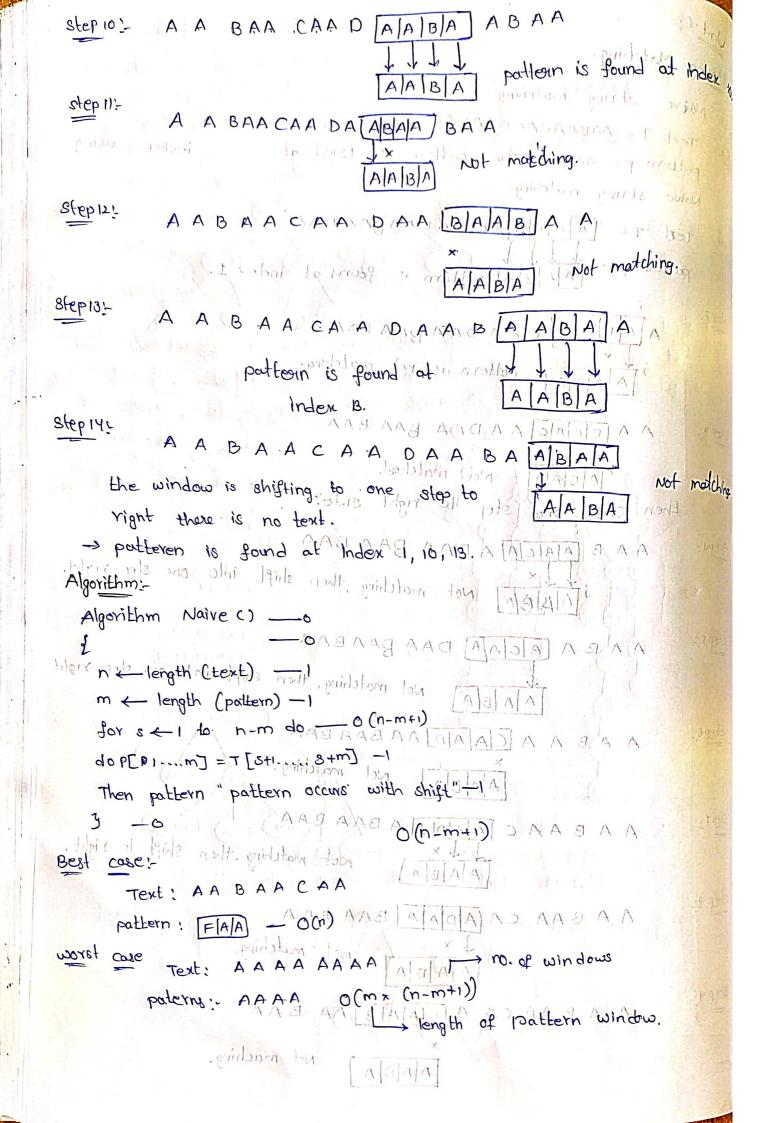
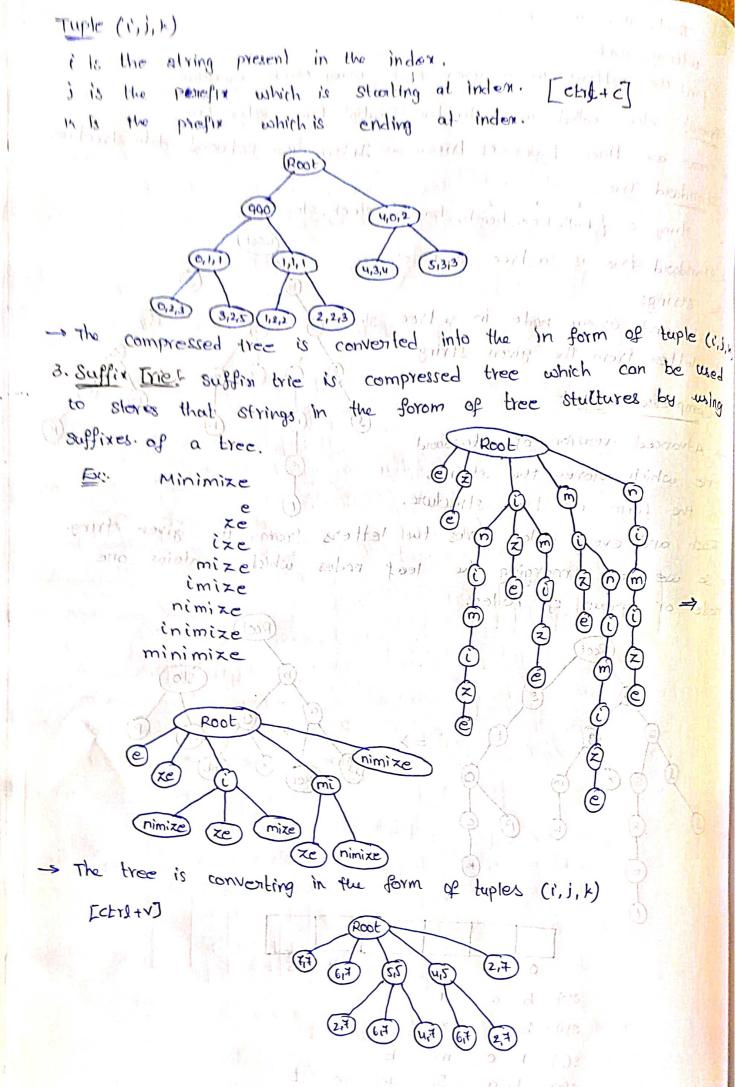
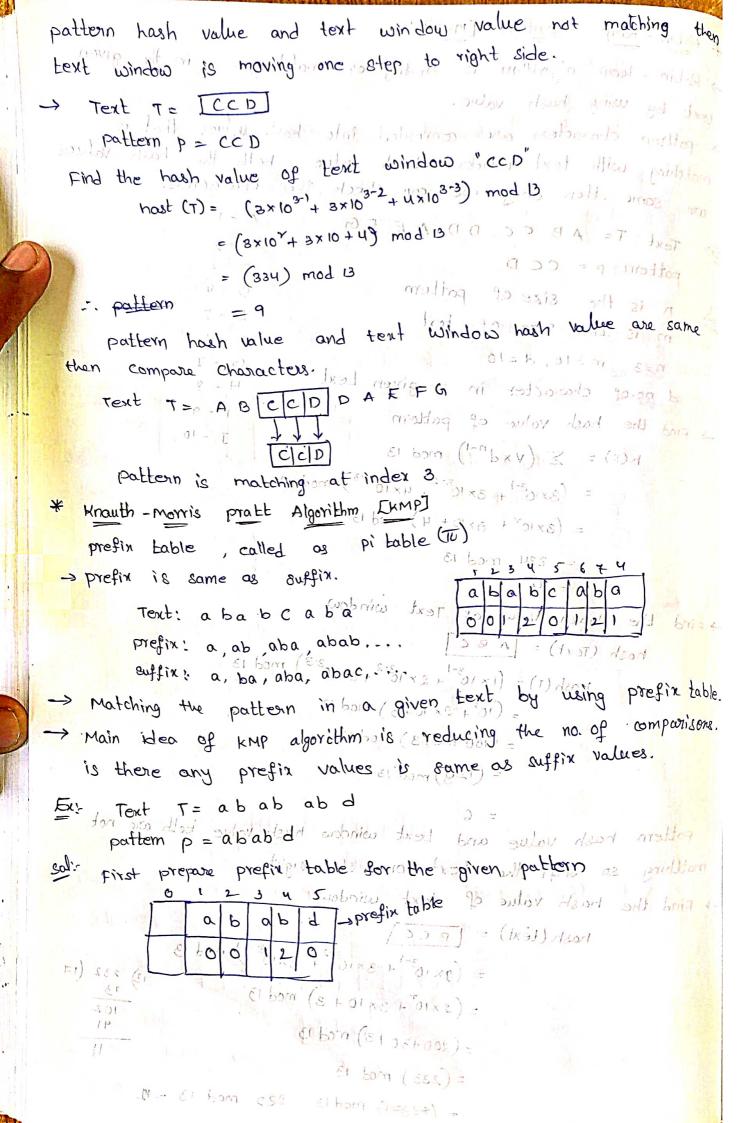
mit-6:string Matching . 1. Naive string matching 1 1/1/1 pattern p = AABA The pattern is found at index using MINIMA Naive string matching. Test T = AABAACIAIA DIAABAABAA AM IAM sal. pattern pr = [A|A|B|A] pattern is found at Index 1. A ABAA CAA DAA BAA BAA AA AA step 2: A A B A pottern is long matching the state of the s Step 3: A A BAALC A A DAA BAA BAA Not matched. then shift none step to right side, paintills is wabout to AAB AAICA A. DIAA BAABAA bring of dollary stepu: ABBA Not matching, then shift into one step right. Algorithm Naive () AABA ALCIAA DAA BAABAA steps: Not matching, then shift intipon step, right AlABA m (- length (pallern) -1 (11m n) 0 ABAA CAAD AABAABAA MI step 6: Not matching . 12] The Employage ob A A B B A Blow count will sight A A A A A A B A A C [A A DIA] A BAA BAA step 11 Not matching then shift to right. TOY! AA BAA ! IVOT step 81. AABAA CA ADAA BAA BAA MATI MILON A A B A Not matching. Tro. c. wall deuts Step 91\_ adAICA BAA CA A DAAB AA BAA : MISTOR Not maching. AABA



Text: acaabc pollems aab Find the pattern in a given Lord using Naive algorithm. Tries! Also called as Radiz trie, Digitial Line, prefix trie. There are three types of tree. - Information Retrieval data structure. , standard Trie: gling 3 = { ball, box, bomb, basket, stock, stop3 ) - standard trie is a tree which stores the strings. Fach and every node in a tree stores 6 the letter from the given string. ¿ Compressed triet and to more - Advanced version of standard tric which stores the strings in the form of tree structure. Each and every node stores the letters from the given string. - so we ware merging the leaf nodes which contains one node or group of nodes. William in myork with m O (FI) 0(0) = b 8(1) = 6 8(2) = bS 0 3(3) = ba C 0 s(u) = 8 t S(s) = S t



```
Robin - Knoip Algorithm [1727]:
Robin - know algorithm is finding or mothing in the given
 text by using hash value.
potter characters are convented into host values that is
patching with text window hash value, both the host values
 some then only we can check the characters.
    Text T = AB CC DDA F F.G
    n is the size of pattern
    pattern p = CC D
    m is the sixe of thet hat how sules that water
    n=3 m=10, d=10
    d no. of character in a given text H-3
> Find the hash value of pattern
       F(b) = \sum (x \times q_{u-1}) \mod 13
                                   9/5/2/
            = (3×103-) + 8×10 + 4×10 + 4×10
             = (3×10° + 3×10+ 4) from (13 milling) A larg sirror - thurst = (3×10° + 3×10+ 4) from (13) shot of 13 milling large sirror - thurst = 234 mod 13
         13 = 834 mod 13
                             - Die Konse of Buffin.
         10 15 19 19 10 10 V
- Fird the I hasho Value of Text window of ad not a that
       hash (Text) = ABC ... , dodo , D. lo do , o .xiloq
      hash(\tau) = (1 \times 10^{3-1} + 2 \times 10^{3-2} + 3 \times 10^{3-3}) \mod 13
                   = (10+ 2×10+3) mod 13 mod 13 mod Hog with will land
     10) Dec 12 Kale algoriter pom (E+05+00) = the me of
      is the e only prefix volues of bom (822) as suffix volues.
  pottern hash value and text window hash value both are not
 mothing so shiff the ortent one step right and married
Find the hash value of text window
                                      6 10
            hash (text) = [BCC]
                      = (2\times10^{3-1} + 8\times10^{3-2} + 8\times10^{3-3}) mod 13
                                                       13) 232 (17
                      = (2×10 + 3×10+3) mod 13
                                                          102
                      El bom (E+06+008)=
                                                           91
                       =(233) \mod 13
                         = (2351) mod 13 = 12
```



The total and the same matchers in which accounted the W. THE BUTTON 10/10/14 nearly particular rather I will possible to walking only among a second H. W. W. Sally S. E. S. W. milt yell stry but not not all

\* Boyer Moore Algorithm! -> Boyer Moore Algorithm is the fastest way to finding or mal the pattern in a string. the pattern in a string.

To the characters are not matching then we can chech, Bad match table. -> The bad match table is deciding How many gems the path is moving. From current position to the ment matching position depends on values of the bad match table. Tent T = THIS IS A TEST in the pattern using boy moore Algorithm. Ex: sal: step 1: First create mad match table for the pattern "TEST' 6 9 9 9 9 9 letter S Value Find the values of each and every letter in the pattern value = length of the pattern - index of letter -1 value (T) = 4-0-1=3 Value (E)= 4-1-2=2 value (s)= 4-2-1=1 8tep2: TH118 Not matching The letter s is available in bad match table -> the value of s is = 1 means the pattern y jumping one position to the right. Step31- Text THIS IIS TEST Not matching the empty letter is not available in the bad match table then consider " \*" symbol. The value of " is 4. Tent: THIS TEST pattom'-Not matching. -> the letter not available in the bad match table, then consider. " value = 4. pattern jumping a positions to right.

