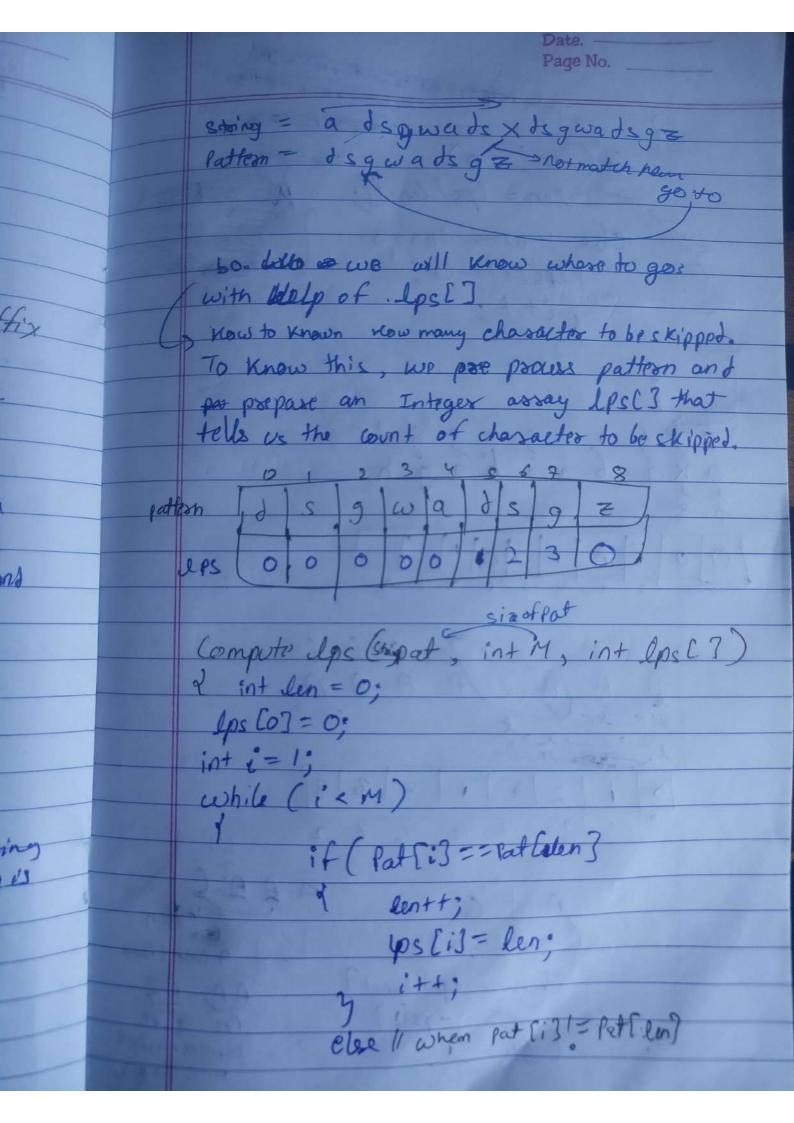
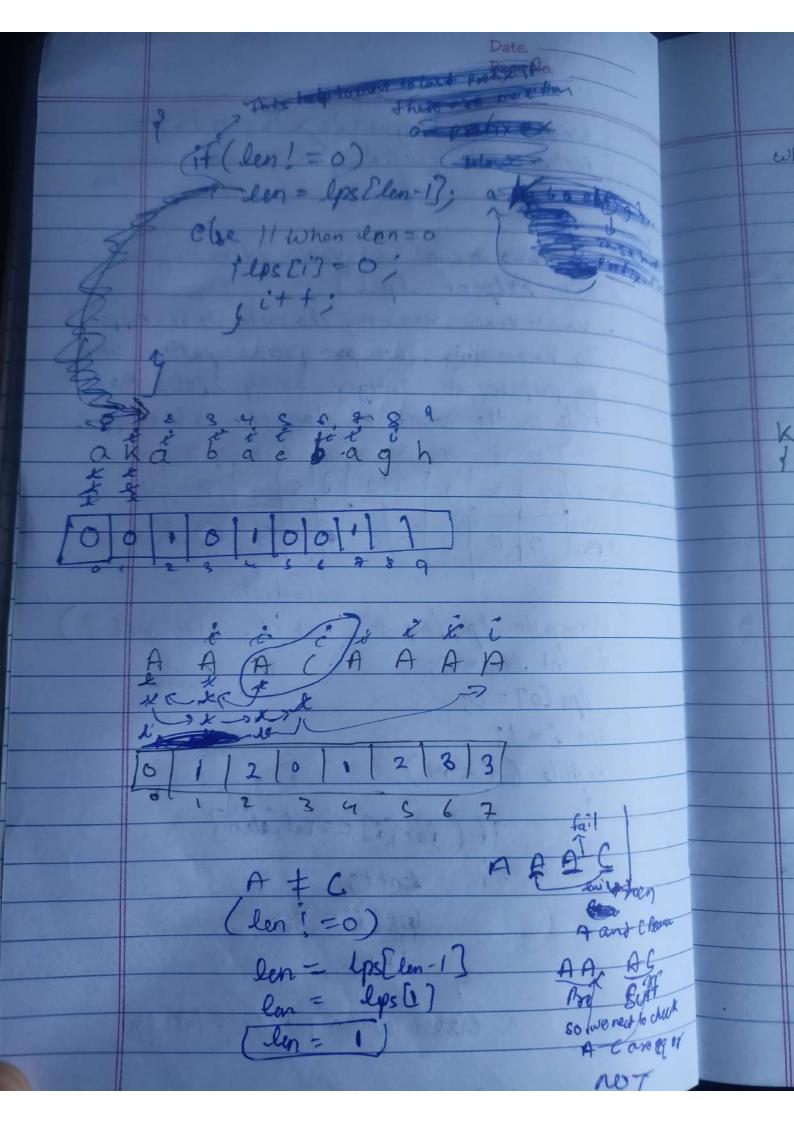
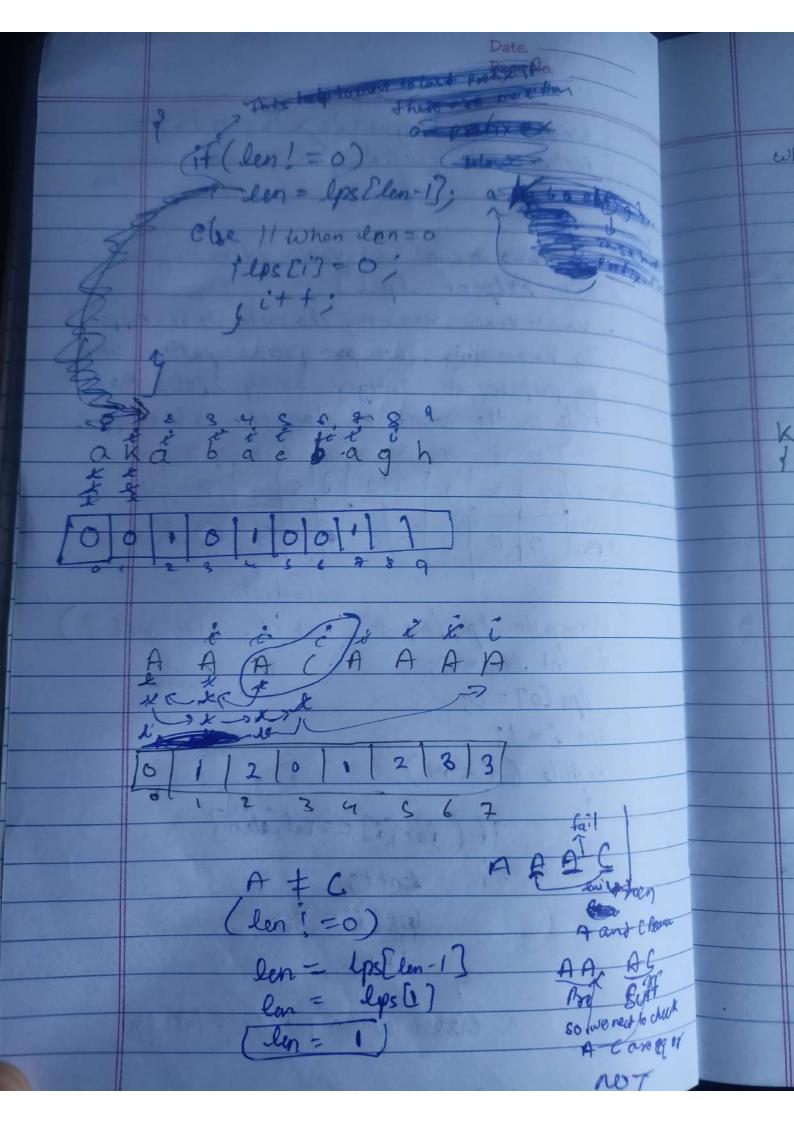
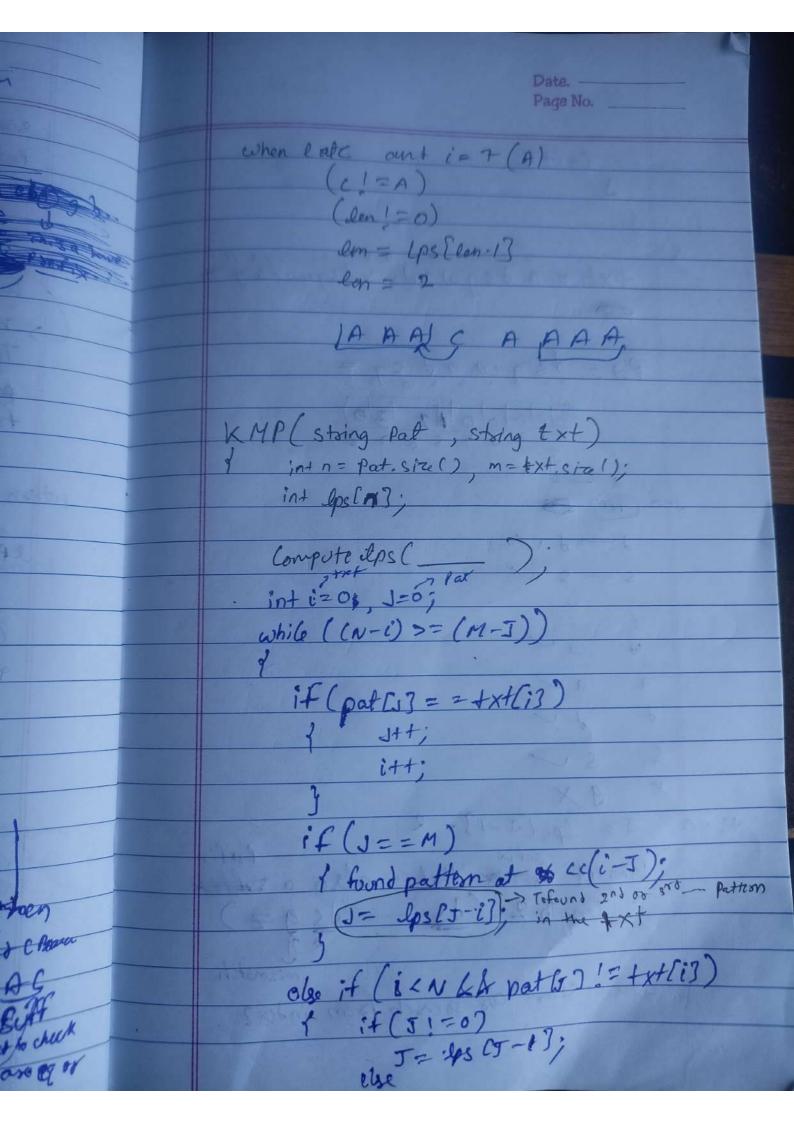
was to check whether one storing is a solution of another s2 Pencilmy make & BMERT D'Y SO. 2 loop. Outer loop => for st x1 if for a char of stal -> matabin so then noxt char maj pencil nu pencil my stant T(=> 0(n2) 2nd Method Make strias imponciony panily Now find go in stal if found then \$2 is a votation of son my pencil else NOT Fox stoing rakhing = use KMP Algo than 2 Problem with the above method or any normal string Matching SI= a a a a a a a b 52 = a a ba b first 3 letter matches then solly 6 loes not match Hence were had to start from I intex of SI so all the progress is wasted in this method.

KMP Pattern: abcdabc prefix: a, ab, abc, abcd suffix: c, bc, abc, dabc. these is a prefix which is also in suffix String: a ds gwa ds x ds gwatsgz We count go Back in stoing if there is a in Pater where suffix can be tour! Storing Pattern g X -> sowe won't go back instaining oqual to the longest suffix As less ever go to last do









i=i+1) +x+ = å dsgwade xdsgwadsgz Pat = ds g w ad s g ? 1000000012 300 J = lps[J-1] = 2 longest for that is also a suffix is length 2 (ds - ds g Z mismatch Sowe Stort as sourch from index ?

