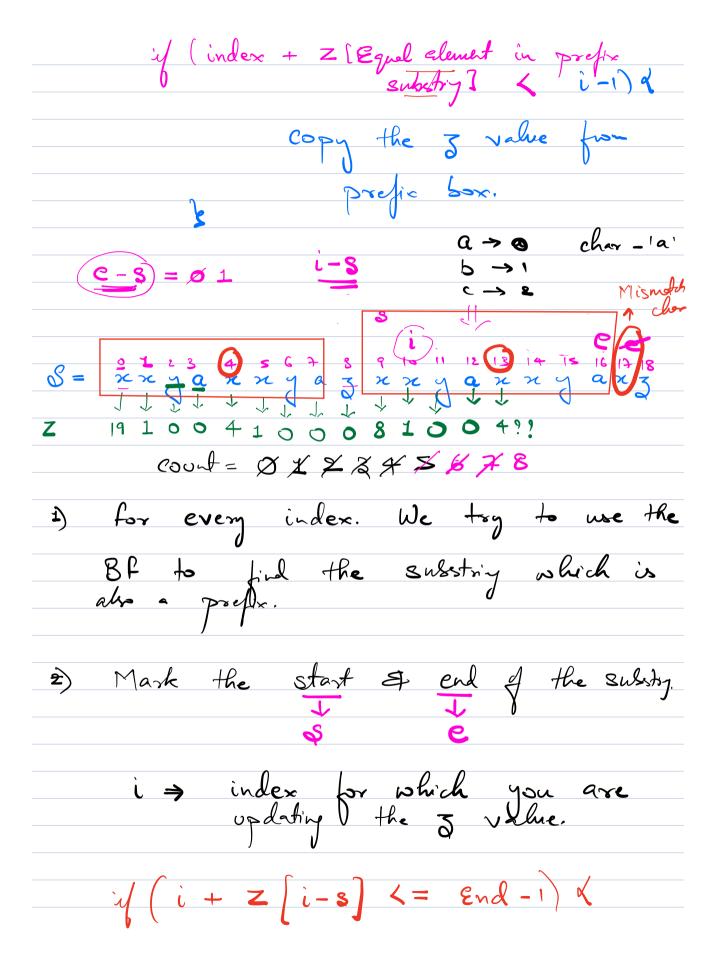
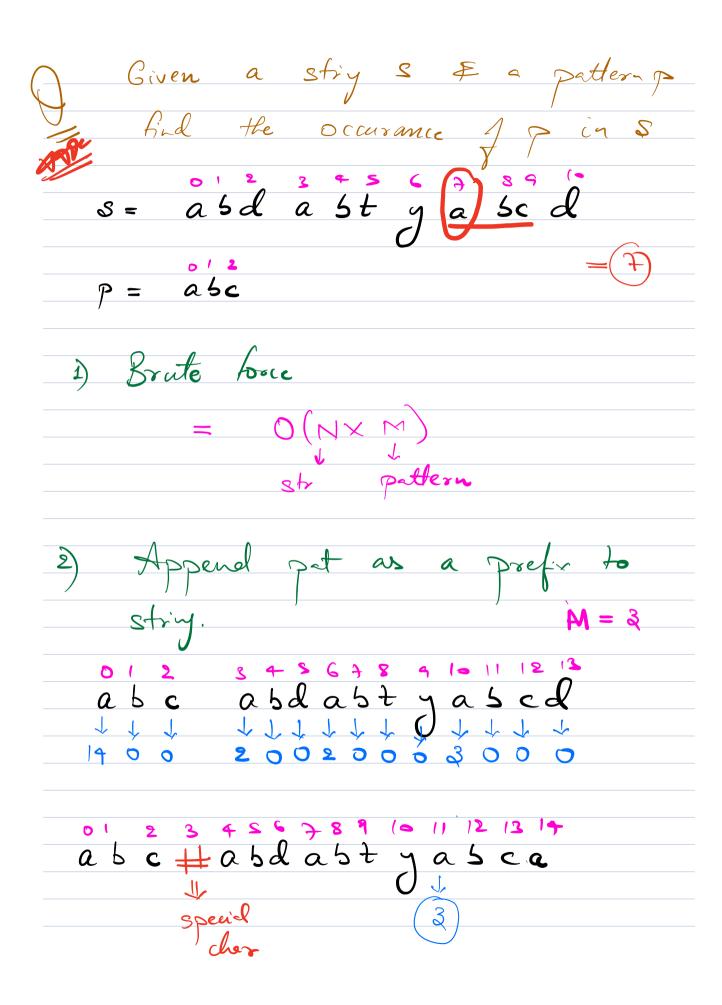
How to calculate Z value. ab ca ab ca ab c 2) Srate Porce > Jake 2 pointers (i) i fon the inden Compare cher by ther & increase count.  $T. C. = O(N^2)$ 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 12 14 15 16 17 18 12 14 15 16 17 18 12 14 15 16 17 18 Court = \$ 1 2 3 4



Copy else & d'need to calculete (compare for the index i + z [i-8] cont = 45 C i > Enactly once Atmex twice (2×N) T. C. =

```
count = z[i-s];
                s= i
                e ++')
                while ( e < N && str[e] = = str[c-s]){
                        e++',
                        conf ++',
               e -- ')
               Z[i] = Counti
       z
       C
    xxyaxnyaz xxyaxxyaxz
    19 1 0 0 4
Z
              [c] \leq +1
                 1-19 <=1
              (out-19
```



$$T.C = O(N+M)$$

1 9 B

$$-(10)(10)(10) = (000)$$

$$-(10)(10)(10)(10) = (000)$$

$$-(10)(10)(10)(10) = (000)$$

$$A \wedge (A) = C$$

find the cyclic permutations of B which are egal to A



→ Generate all cyclic permutations

there



$$O(N+N)\times N$$

$$A = (010)$$
 $B + B[0, N-2]$ 
 $N = N-1$