LPS : KMP

a b c a b d e a b a f k a b c

① a b c ⇒ Pallindrome → same ⇒ 3

cb a b c ② ✓

P S I N O O N I S P ③ O(n) ✓

cb a b c ⇒ ③ ⇒ ②

① PSI NOONISP

O(n²) ④

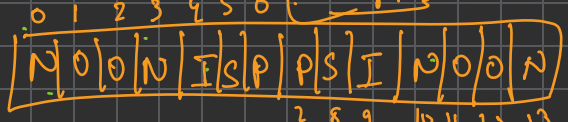
N O O N I S P P S I N O O N

Start part ka Longest pallindrome

7 − 4 ⇒ 3 ✓

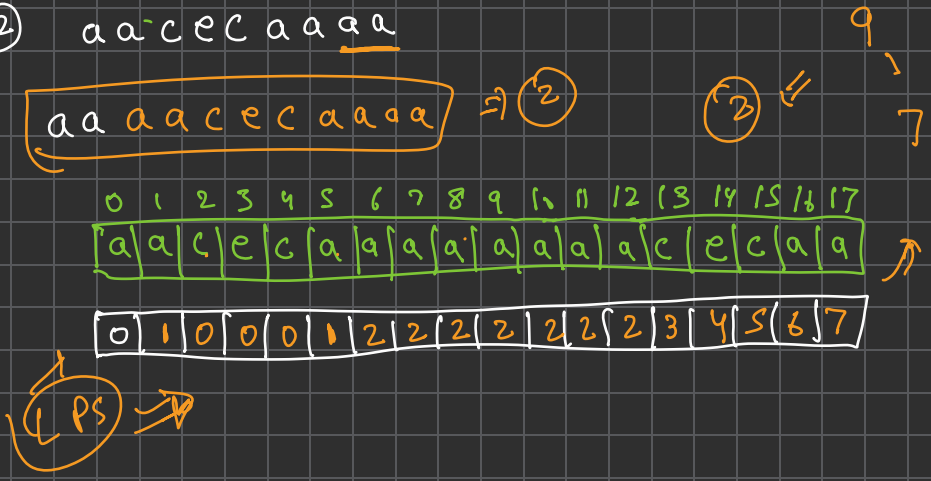
LSP prefix suffix

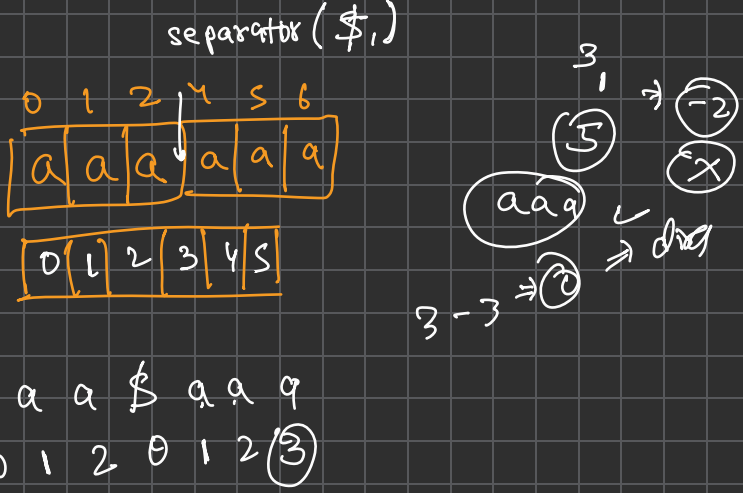
Pallind prefix suffix ✓



7. 4 ⇒ 3 ✓ Longest palim

② aacecaaaa


aaaacecaaaa
2
2
9
7
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17
a a c e c a a a a a a a a c e c a a
0 1 0 0 0 1 2 2 2 2 2 2 2 3 4 5 6 7
PS


separator ($,)
0 1 2 3 4 5 6
a a a $ a a a
0 1 2 3 4 5
3
3
2
3
X
aaa
dup
1
3-3
a a a $ a a a
0 1 2 0 1 2 3

b d c c a b c e a d b

b d a e c b a b c e a d b

a = a b c d b = c d a b c d a b

a b c d a b c d a b c d

① a = x b = x x

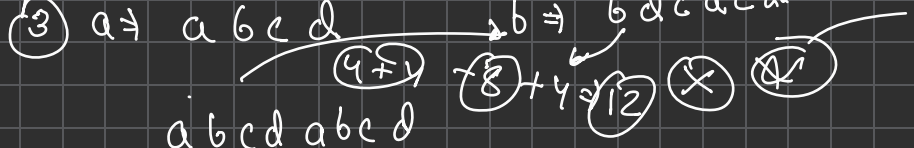
x x

②

(2) a = abc b = defghi

abcabcabc abc

(3) a = abcd b = bdcacda

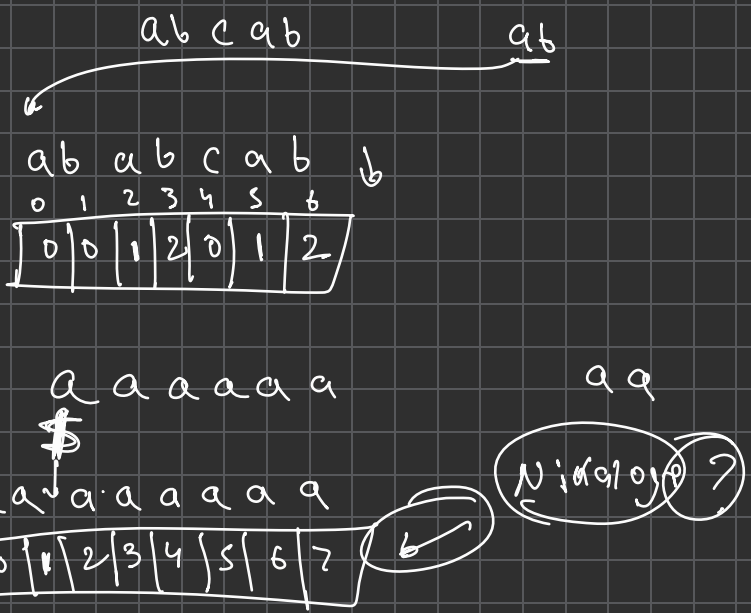


abcd abcd

abcd abcd cdabcdab

bcdabcda dabcdabc

abcd abcd


abcab
ab
abcab
0 1 2 3 4 5 6
0 0 1 2 0 1 2
aaaaaaa
aa
$
aaaaaaa
0 1 2 3 4 5 6 7