

Cole

$$\lambda \circ \rangle = \langle \omega \rangle \langle \omega \rangle$$

3

$$i = 0;$$

$$j = \ell - 1;$$

while (j< N)

$$DP[i][j] = 2 + DP[i+1][j-i];$$

else d

$$\Delta P[i][j] = me (\Delta P[i+i][j],$$

 $\Delta P[i][j-i];$

5

3

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S.C. = O(NE)
Given a string of size N.
tij tell whether the substring
from i to j is a pallindrome. 99
 0 1 2 3 4 5 6 7
S: a 5 5 c e c 5 a (N=8)
Op ?? > N2 boolean matrix.
   (0 = [M][M] 9 d
  for (i=0; i< N'; i++) <
            (j= i; j< N; j++) d
               of (check (i,j)) of (om)
                      DP[i][j] = 1;
               کا
                    cherk of substig to
it is as a notiff
5
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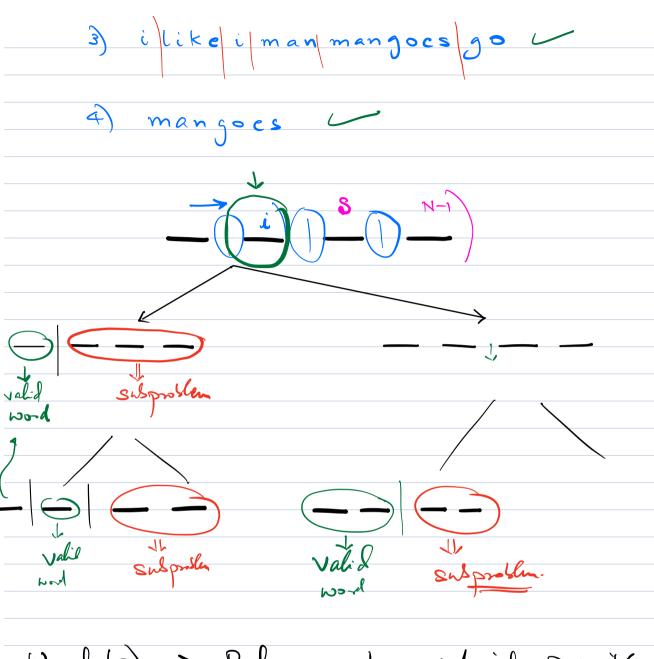
 $T.C = O(N^2)$

 $T. C. = O(N^3)$ -> should be a pallidsons. (a) (b) ce cb g(sti)=stj)) false. Cista Cista Cilligad [1-j](1+i)qd Given a strig of size N. find the length of the longest pallindsonic Busstring. $O(M_s) =$

Length =
$$(j-i+1)$$

Sterate over the prev goes solt
 $\forall i:j$ where $P(i)(j) = 1$
 $(j-i+1)$ & maintan a max.

	Word Breek	2 a - z y
	Given a dichi	nay (list of words)
of B	Given a string	(a-z no spaces)
65 Adsk	Check if it is	possible to breek down
50gh	the string, into	possible to breek down valid words from
		am man g
	Eg: dict: \ li	mangoes 4
	1) ilike ma	
	a) i like go	č⁄\$



Word (s) > Returns true if its possible
to breek the
sting [s, N-i) into valid
words from the dickionary.

boolean word Breek (5, e, str) d / if (s == str. length ()) &
return True; for (i = 8; i <= e; i++) « M (is Valid Word (s, i, str)

88 Word Breek (i+1, e)

str) retor false; (DP solution) Iterative