leet code 5: Longest Palindromic Substring.

Notes:

> Base Cases:

: True; is a palindrome

length 2: [i.j] True if sto[i] == sto[j]; False otherwise.

Palindrome expands around certer

stoli...j] is a palindrome

iff str [it1...j-1] is a palindrome and str[i] == str[j].

Structure to solve this problem.

startily from len 4 i.e. stati...i]

to length 2; str[i..i+1]

proposed structure:

to length n: sto[0... n-1]

ff tablity ju pal(i+1,j-1)?!

Pseudo Code

for it o to n-1 tab[i][i]←T

for itoton-2

tobsijsitje T iff s**b**[i] ==s[i+j]

for it o to n-K

tablij(j)=T

Fill direction.

Recurrence Relation:

sto: babad

True; if i==j

True; if j==i+1 and

str[i]==str[j]

False; Fato otherwise.

and str[i] == str[j]

00 01 02 03 04 11 12 13 14 33 34

44 acaabcacd

table[0.2] = table[1.1] & d str[0] == str[2] table[1..3] = table[2..2] & sto[i] == str[3] table [2..4] = table [3..3] Q to sto[2] == sto [4]

table [0.3] = table [1..2] & & sto[0] = * sto[2]

then a scan of metrix to determine Congest polandine solsting