## Stongs - sevikion

group of chans X
bequence of chans
array ( list of chans )

2) 'A' -> 65 'p' -> 66 '2' -> 90 '01 -97 '61, 98 '21 - 122 '0' - 48
'11 - 49
'2' -> 50
;

Shrye being immufable

N→N ¬ Pc ¬ O(N2)

Inumballe Shong - Shory Buildin

## 1, toggle the case

4 -32 (+32 4 toggle the ch box

gd. given courcase chans in dich order.

Q3. When a string S and two indices Q 2r.

severe the substring from 1 to r.

an or S = a b d e a q b

l=2

r=5

opp abgaed f

psudo

seuse Partstr (shr, e, r) }

white ( e< r) {

smap ( 8[1], 8[1])

944

 $\tau$  ~ -

Te = 0(N) Sc = 0(1)

Amazon

Dy. Wiven a character array storing a sentence, remose Ptword by word. I no extra space

of every word is separated by

of single space (4 -4)

of no insuit method

er 20

Pp on cha [herel-lis-lal-boly]

01000

[boly-lal-lis-lale]

TIP => Ch => ARE \_YOU \_AS\_CLEVER\_AS \_ I \_ AM

OIP => "AM\_I = AS - CLEVER - AS - YOU \_ARE"

TIP => Ch => "MAILMEN \_ BRING - CETTERS"

OIP => "LETTERS \_ BRING \_ MAILMEN"

Sense

Sense

Sense

LETTERS - BRING - MAILMEN

Word

- 1) reuse the entire string 11) reuse each word
- SRETTEL GNIRB NEMLIAMIT

  remocPorte( Str., l, T-1)

  (l, T-1)

iterations = 7 + 7/2 + 5 + 5/2 + 7 + 7/2 = 3/2 (7+547)

$$\frac{2\pi \circ}{c} = \frac{1}{c} = \frac$$

iterate 
$$\sigma$$
 are  $\sigma_{12}$  or  $\sigma_{13}$  or

Q.S. hiven a string, calculate length of longest palendrande substring.

G

str=> n b d y 2 2 y d b d y 2 y d n

P1

P2

P2-P1-1

only for odd len, palindrome.

First expand (8hr, 
$$P_1$$
,  $P_2$ ) \\

White  $\left(P_1 >= 0.82 P_2 < N.82\right)$  \\

SEP\_1 I = = SEP\_2 I

P\_1 - - P\_2 + t

3

Setum  $P_2 - P_1 - 1$ ;

a b c b a

take every index as a odd len, palindrome centre, and expand on it, finding the len.

setum the man'm length

man' length odd length palindromic substromy

ons bdyzzydb

```
am 2 1
      for (i20; i<N; i++) } // magin odd length palindram
            ano = mon (ans, expand (str, i, i))
18
      for (i=0; i<N-1; i++) { // maxim even lengte palindrome
         aus: man (aus, expand (str, i,i+1))
      return aus
       re = 0 (2N2) = 0 (N2)
        SC 20 (1)
     Porrible 284
          O(N3) => Create all possible
                      substitutes & check palindrome
          O(M2) - capand func.
          O(N2) - OP (SC+OCM2))
         Manachery Algo.
```

les abcba odd left night abee balob et sêm capand , c 6 a S  $\alpha$ 07 2345