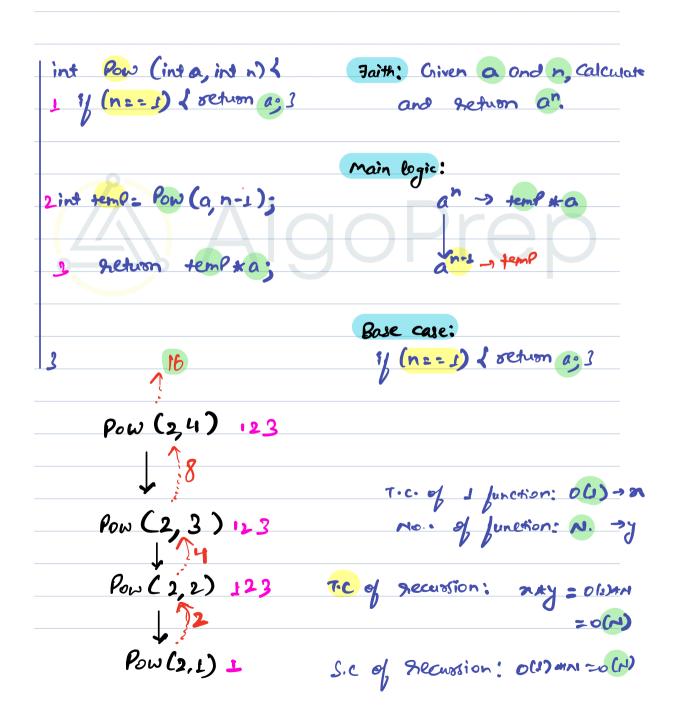


Today's	agero	10		
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b	TC &	SC 0/	hlausion	
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a) Given a	and N.	calculate	car.		
	Er:				
		2 3	<b>—</b>	8	
		3 5	<b>—</b>	243	



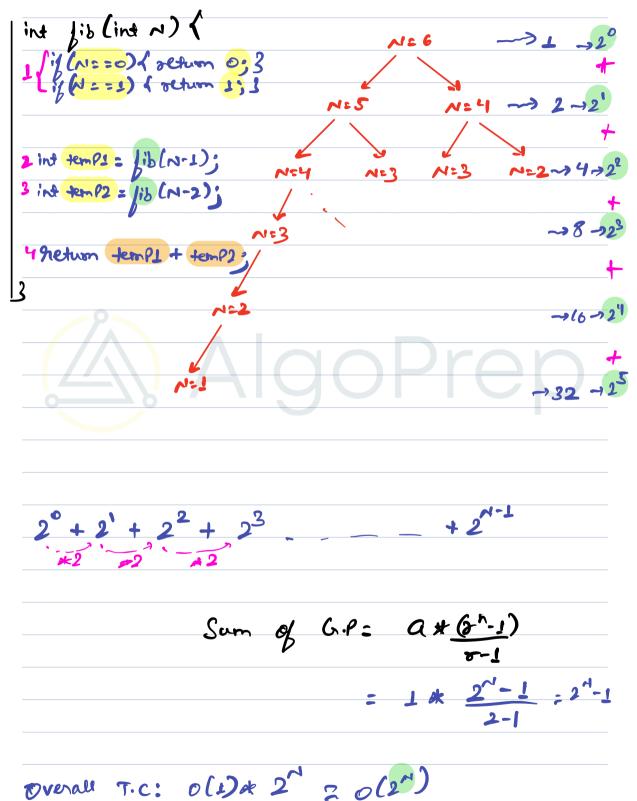


11 do Something better than O(n).
$\Rightarrow a^n = a^{n-1} * a$
$4 a^n = a^{n/2} * a^{n/2} * y $ n is even $en: 2^8 = 2^4 * 2^4 \times x$
$b a^{n} = a^{n/2} * a^{n/2} * a   if  n  is old   2^{9} = 2^{4} * 2^{4} * 2$
int Pow (inta, int n) { Faith: Given a and n, calculate
1/ (n==1) { return a= 3 and seturn an.
Main logic: , n is even : tent * +
int temp = Pow (a. 1/2):
if (nx.2:=0) { seturn temp + temp)
else Phetum temps temps a 3 a m2 ~> temp
3
Base case:
1/ (n==1) { return ag 3



int Pow Cinta, int n) {	a=2 N=37
1 1/ (n==1) { return 03}	2621444262144
	Pow (2, 37) 123
	· _
2 int temp: Pow (a, 1/2);	262144
(1) (nx2:=0) ( setum temp + temp)	
2 else 1 heturn temps temps a; 3	Pow (2, 18) 123
lege theum temps temps	512
3	Pow (2,9) 123
overall 7.c:	76
Tie of I function: O(1)	
No. of Junction: Ollog!	Pow (2,4) 123
= o (legn)	Pow (2,2) 123
	150
overall s.c: O(1) * logn = o(logn)	Pow (2,1) 1
	100 (1, 1) 1
il n is negative	
2 > 2 <sup>3</sup> ~ recurs	live Joth of any
	4
	24
$a^{n} = a^{n/2} + a^{n/2} \rightarrow most o$	cru
$a^n = a^{n/2} + a^{n/2} \rightarrow most$	Plind here.
an = ans + ans + ans	
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	20(41)
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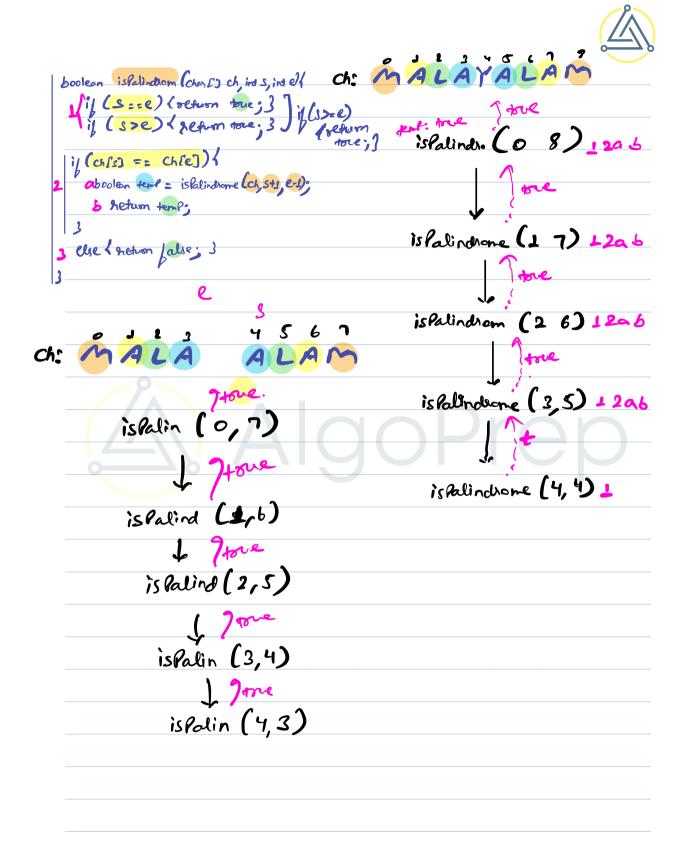




此	No. of Calls = 7
	Count of levels: n do. of functions: no
	Correct of
	Break till 9:49 pm.
	MODROD
	A + A + C + C + C + C + C + C + C + C +
0	78 / 119 01 100



a) Given an array, chec	k if it is Palinds	ome Or not?
En: MALAYALA	m + true	
En: aabba	2 -> false	
Nideal		
+ MALAYALAM	aab	ba , labe
+ MALAYALAM + MALAYALAM	a 6 b	ba, falk
Nidea 2	إسمى	
Mides 2 PALAYA	LAM	20(1) 0 1/2 20(N) 20(N)
boolean is Palindom (char E) ch, int	S, in el Jaith. Ch	eck and
il (S:: e) ( return tour	; 3 greshm	n whether
if (S== e) (othern true	; 3 ch averag	is Palindsome
	Losh	<u></u>
if (chis) == chie]){		
boolean tent = islalindrome (c)	Sty e-1) main logic	<b>!</b>
hetum temp;		
3	ys view	7 - 2 e
else ( return false; 3		
3		
	Chaj: cheej	Ch[s]== ch(e)
base case:	verbren false te	emp: tour temp: false
	•	heturn the lake





Ch: MALA ALBM
2 lolse
islatin (0,7)
islatin (0,7)  jobse islatin (1,6)
isratin (1,6)
write iterative code -> for (int i=0; ient; i++) <
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No. 1 Annual Parco Consultanil
write securive code: swithin 1 jurction space complexit
Lyon create multiple instance of Same function
Stace will be considered
in slace complexity.
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