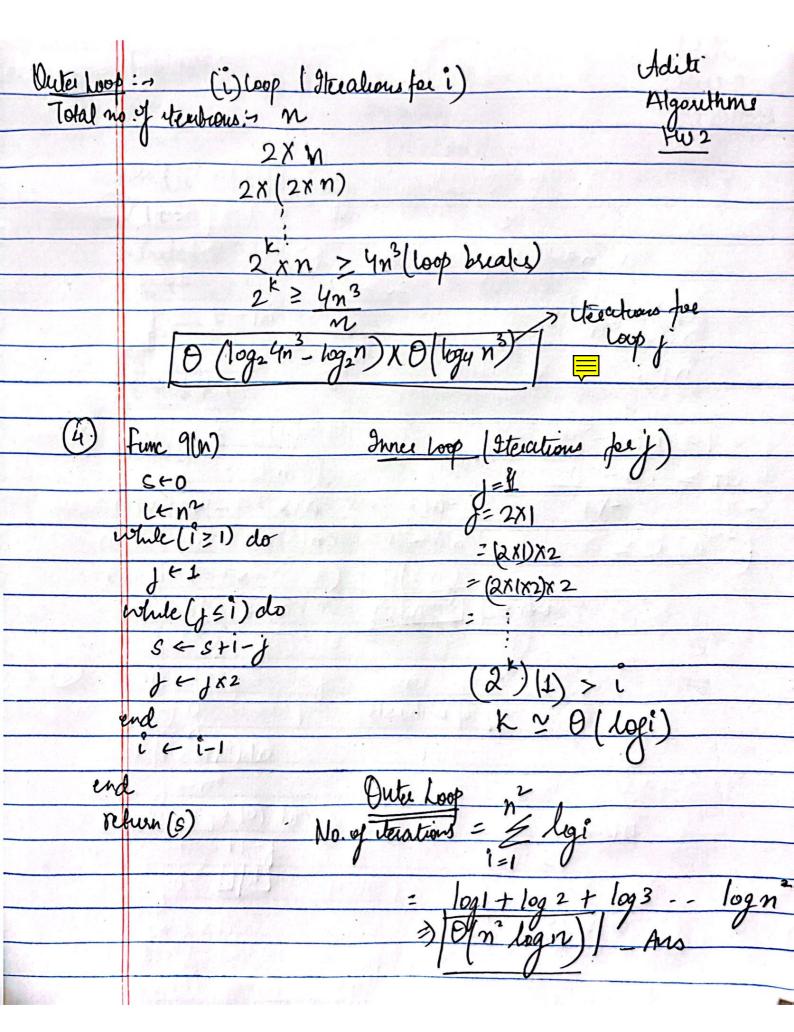
	Aditi (	Gara
(1)	Func 6(n) Algorithms Hw:	#2_
	S + 0	
	far i = 6 ton do 1=3	
	j=3 =1.5x3	
	) - (1.5) * j	
	end 11.5) x 3	
ey		-l
	return (s) $k \log_{1.5} \ge \frac{1}{2}$	
1.1	1 0 72	
No	o of teatrons= $\frac{1}{8}\theta(\log i)+\theta(1)$ K $\log_{15} \geq \log_{24}$ K $\log_{15} \geq \log_{24}$	alogi -
	$Q(x^2) Q((x^2 +  x ^2 +  x ^2) \times Q(x^2)$	1093
	9 (n2) 9 (log 6+ log 7+ log 8+ log n2)	
	[O[n logn] - And I I Integrating	
		June 1 m die

Aditi Gara (2) func 7(n) While ( i z1) do  $\Theta(1) + \Theta(1)$ · L= L-5n for je 1 to i do i + i-In schun (9) No. of iterations =  $\theta(1) + \theta(1)$  $= \Theta(n^{2-5})$   $= O(n^{2-5})$   $= \frac{1}{100} \cdot \frac{1}{100$ kn3-In(1+2+ \_- - k) = 0(kn3) Finc 8(n) (9 teachons for

## Scanned with CamScanner



Scanned with CamScanner

	1 3 X /V:		
10:31 010	of decidates the		
Miller May		t=17 /01 x )	14/00/420
11			Alite
	Functo(n)		Hw-2
(5)		nnee Loop	Algorithms
	i ← 1	9 tentions	toci),
w	ule (i <7n) do	<b>V</b>	J=n2, 126; = 1-1
	Jen2		= M -1
	Wile (176)	A Property	
	S+5+9-j		n² - k i > 6
	j = 1-i		$k \sim \Theta\left(\frac{6n^2}{n^2}\right)$
e	nd o	ATTE M	
-	i = 5 × 1		119 gnoring the constant
	9		$K \simeq \Theta\left(\frac{n^2}{I}\right)$
\%C	un(s)	一种特殊	
0	utu Loop:- 121, 1<7n	, L=5xi	
	θ(1) =>Θ(	logn)	
	12541		1 0 1,2 k 2
	$\theta(n^2) = \theta(n^2 + \frac{1}{5})$	+ 152 + -	$) = \theta \left( n^2 \stackrel{?}{\leq} n^2 \right)$
			-10/n <sup>2</sup> n
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