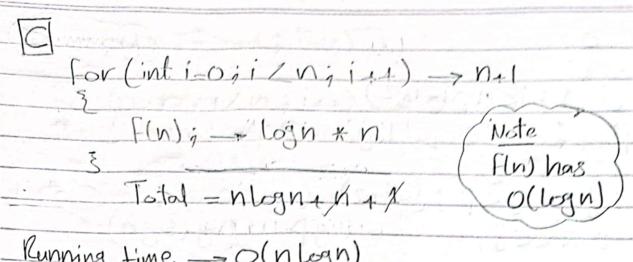
(Question 1	)				
	(D	0 (2		5	e of the
TAL For (	int i=c	oji Ln, i			
		<< 1		1	The state of the s
	COM	3	instruction	cost	No. of Operation
			o=itri	1	11
Total No. of operations = 3/12			$i \leq n$	1	n+1
			contexi	1	n
- Running tin	ne p	O(n)	i++	1	<u> </u>
0	5 7 2		L farili	<u> </u>	
B	<u></u>	(2) (2	1)		
For (inti=1; i <n; i*="2)" i<="" let's="" observe="" td=""></n;>					
		<< i>:		<u> </u>	
				1	:/e_f
instruction	istruction cost No. of ope		dian $1x^2 = \frac{2}{2}$		
1=itri	1	1	2	$\frac{2}{\sqrt{2}} = \frac{2^3}{2^3}$	
icn	1	log_n +1	Stop 2	1	- A miles
Cont < <i< td=""><td>1</td><td>109 n</td><td>check</td><td>ak.</td><td>A 3</td></i<>	1	109 n	check	ak.	A 3
j *= 2	1	J2	1	2'	
		Login	055	ume i	2= N
-why K= [ Log_n] (ceil Value) :2K>=n					
10.0 17=1	271		loop 5	topping_	
assume N=8 / N=10			$cond. (2^{k} = n)$		
Values 13 2 (H) := [log N]					
Running Octory					
stop < 8   8]		time DO(legn)			
C=3		16 - Stop			
1					

Subject: ..... Date: / /



Void decimal 2 binary (intr) -> T(n) if(n>0)

T(n)= T(n/2) - 1

\* By Applying Master Theorem (Dividing Function)

(n)=T(n/2)+ - By Companing it

> case O(nk logpin) 0 (nº log1n) = 0 (logn)