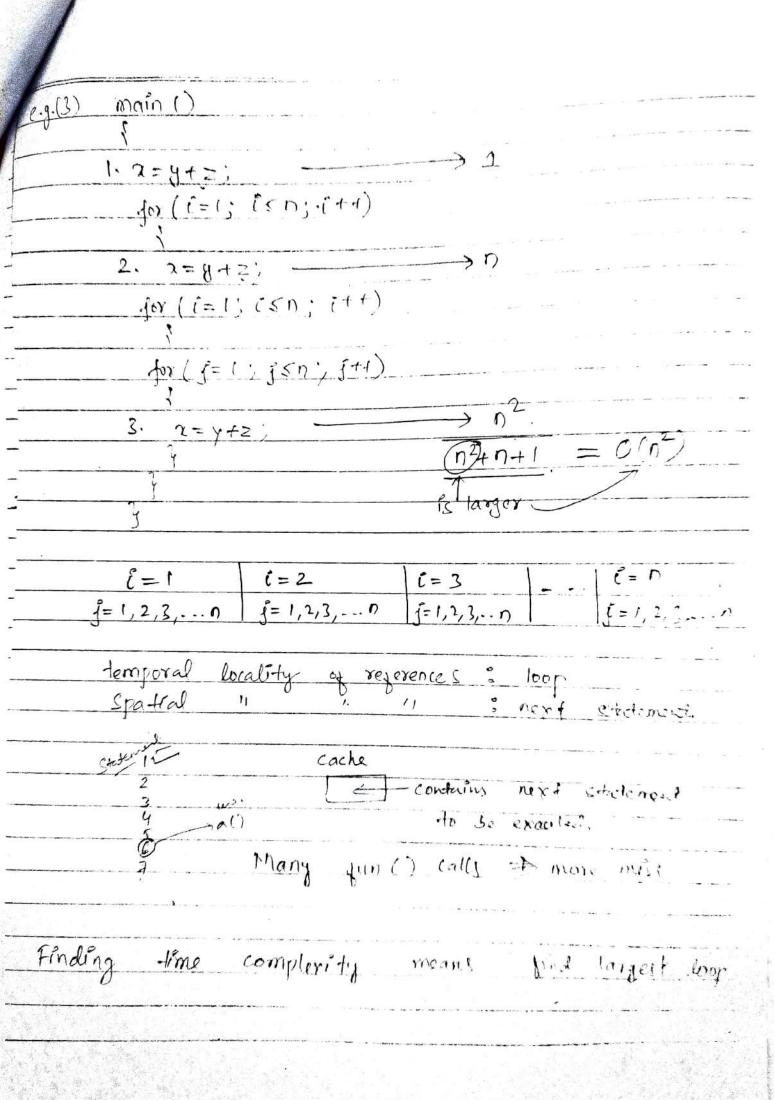
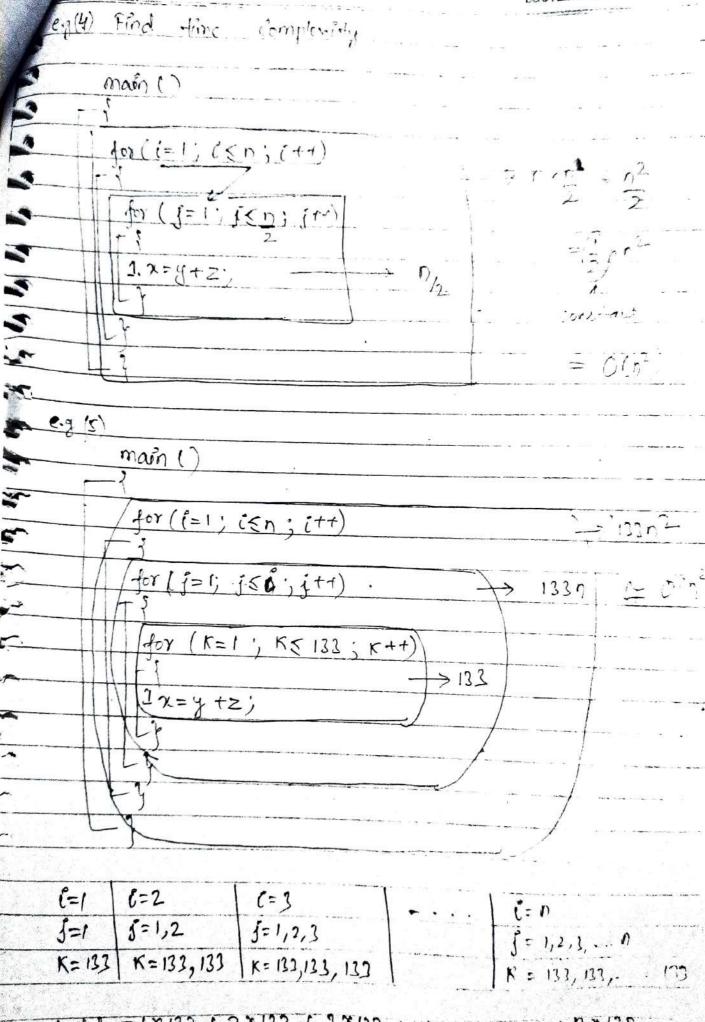
	vac-	
Time Complexity and Space	Complexity	
(Analysing Algo)		
Time Complexity means CPU Space Complexity means ma) time in memory	(RAM)
1 Byte 1000 ns :> cheap, b		
1 Byte 10 ns 3> moderate 1		
1 Byte 1ns :> costiler > Cache Memory	but fast.	
7 Time Complexity is more Space Complexity.	important	than
Time Complexity	1000 MOSE 00000	lgorithm
T(A) = C(A) + R(A)	C(A): Comp R(A): Run t	rile Hime (A)
Programming language type or processor.	C-Compilation	j-compilate
compilation of time is forceson fine in jara - compiler. than C - compiler.	6-phae	4- phares.
16 C program Run / is zaster Han fara program Running.	Marking -	M/C-indi
ic c program Run / is juster	Machine- dependent	M/C-ind

•

* java compiler is only 4 stages	
and kntermediate coo trogram. A C-compiler Run time	Le),
Types of Analysis	
Relative Analysis	Absolute Analysis
1) ît îs programming- language of compiler and type of processor dependent analysis.	1> It is programming language of compiler and type of processor independent analysis.
27 System to System answer will be changed.	2> System to System answer will not be changed.
3> Always gs.ve exact answer.	3> It will be give approximate answer (du to independent
4). It depend on PIL of compiler 4 type of processor.	analysis) 4> logic of programmer matters
Super compuder -> Reladire Super Algo -> Absolute	The state of the s
In Soztware industries, Abs	solute Analysis is used.

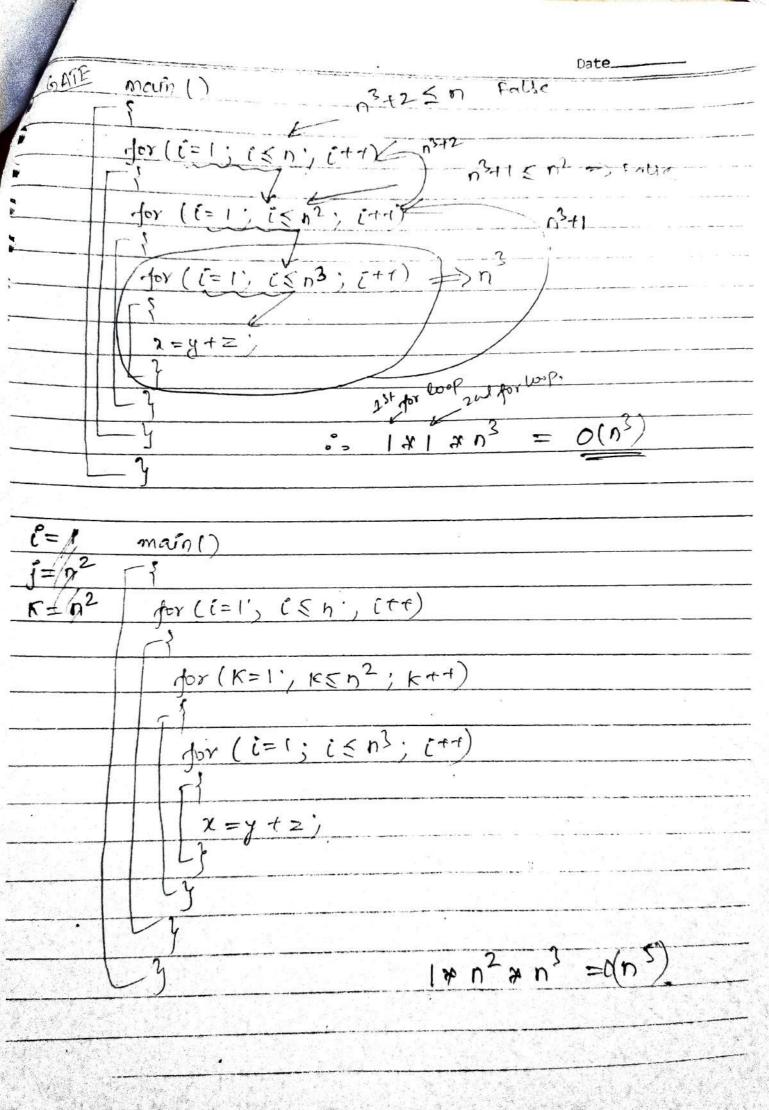


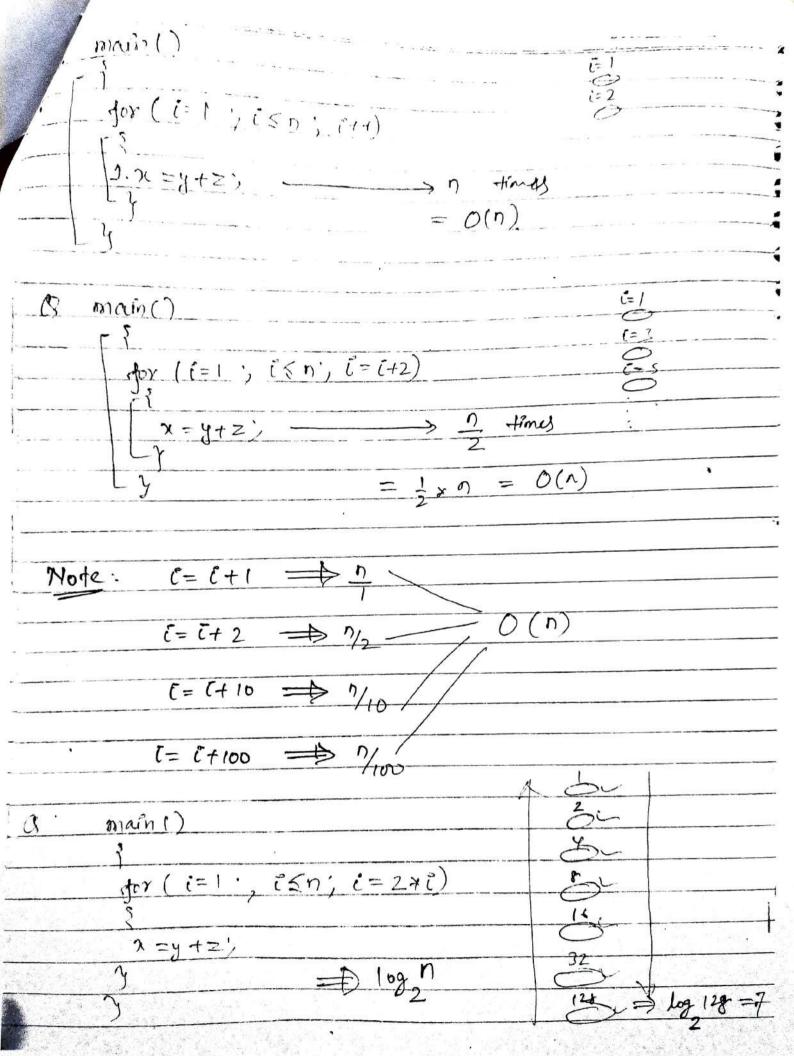


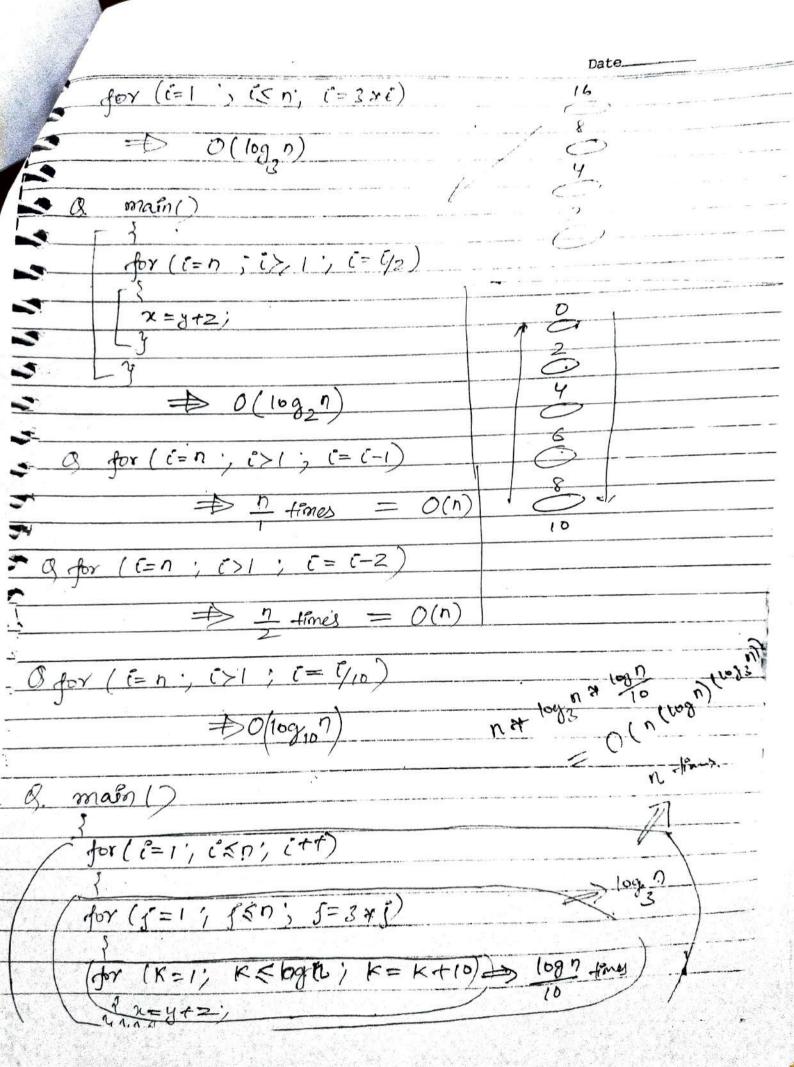
+10+2 = 1×133 + 2×133 + 3×133 + 4×133 + ... + 11×13? = 133(1+2+3+... 1)

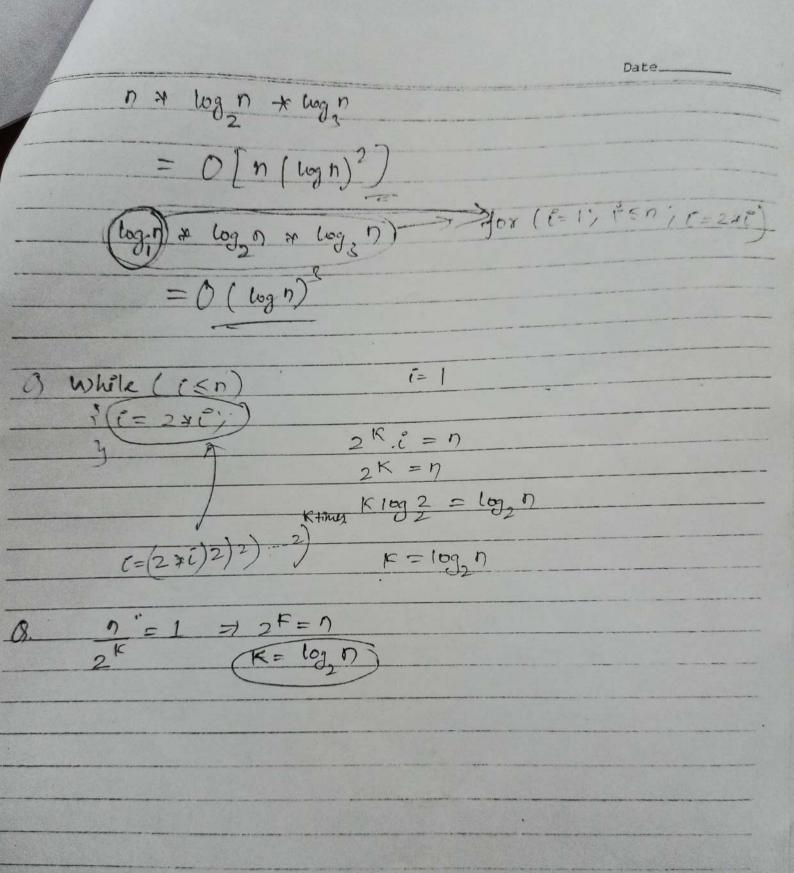
$$= n^{2} + n$$

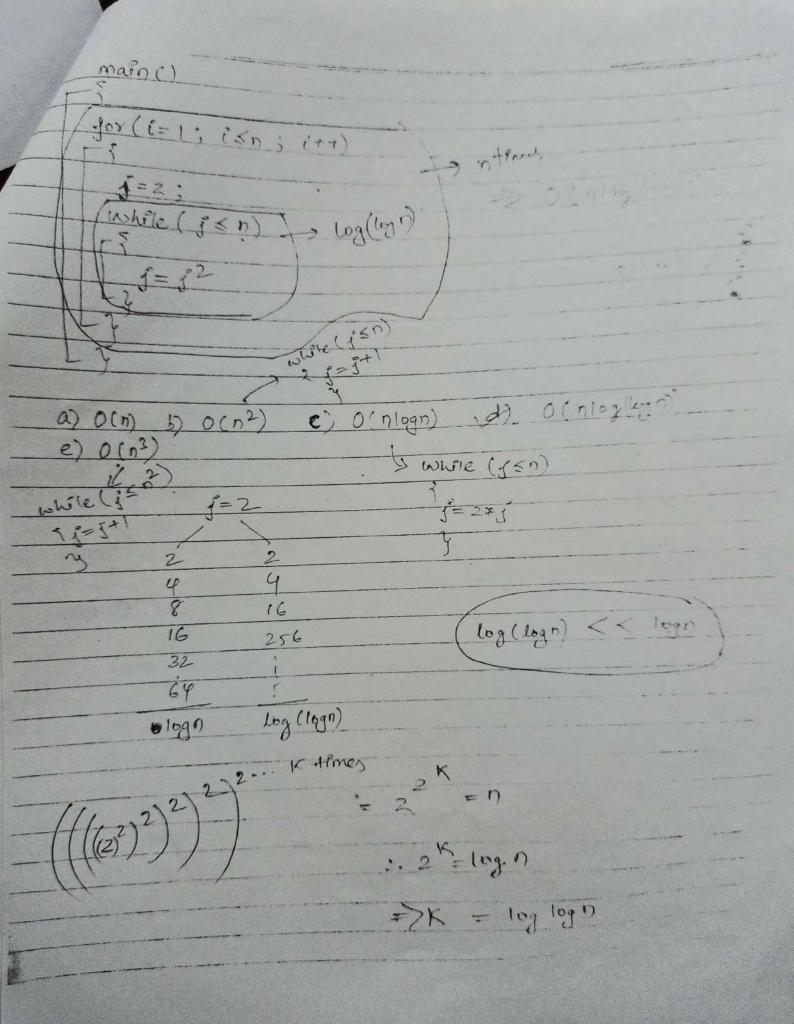
$$= O(n^{2})$$











(24 1) 42 # 2 # 2 # 2 $V(\nu)$ if (n <2) return; 70 turn (A (1/n)) a) O(n) b) O(y) c) $O(\log n)$ d) $O(\log \log n)$ e) $O(n^2)$ code ig (C × 99) return Code A(c) A (1000) =) K = log, log 7 A(2)