-		
3		UTA 10: 100 22 40528
7		Nane: Karan Aspan Thubbar
7		Hands on 3
9		2 At GA
3		function x= f(n) () () cost 1 time?
3		bexisting bout as scientists
		for i=1:n
3	an en esta de la constante de	
	god trug	for j = 1: n C3 n
2	13510 84	plant Delived on tenne Consplance to we so wit s
B	(1.) Find the Juntime of algorithm Mathematically
فل		20 COM 20 CN 6)
No.		Aus So here outer loop truins in times
-	11676	2 2 mer loop Juno n' de me
-	Je 471790	For each iteration of siner loop x=x+1
3		Sout of Divis quality cally apport
3		$T(n) = \begin{cases} \begin{cases} & \leq 1 \\ & \leq 1 \end{cases} \end{cases} = \begin{cases} & \leq 1 \\ & \leq 1 \end{cases} = \begin{cases} & \leq 1 \\ & \leq 1 \end{cases} \end{cases}$
7		
-	CE ON My to Electron Street, and the second	$T(n) = n \times \alpha n = n^2 \text{ durities it is}$
		- 1 1 0 000 00 1 1 0 00 2 Comple of 0 000 2)
3		Total no. Of operation nº Complexity O(nº)
1		
-3	(2.)	In github of no to purpose to doubtiler to
	V.	1 dan
-1		
115	(2)	Find polynamials that are upper and down is duncts on your aure from #2 So as the Curv is qualitatic viel acce + bx + c
	0.	On white from # 2 11 - 1
	Aen	(V) (=) down
	, , ,	so as the Curv is qualitatic viel ascet bet a
		ipri X
		So they have same upper and dower bound.
		So they have same apperand dower bound.

From Ben 3 Asthe Big-0 Notation (0): The polynomial is $cesc^2 + bx + c so time conglescity is <math>o(n^2)$

Big - Omega Netation (S2): So this represent the down Bound on time complexity So it grows at least quadraticly repet to n

So OCO 22 Cn2)

Second Contraction and

Pene Farm Para Halling

Big theta: 7ing complexity (D(n2))

(Average bound) agans fans agans

This represents both year and down bound

So it grows Quadratically accountly

with respect to n

In github ing part of the more of the specialists

Inmodified, the function to be:

X= f(n) far j = 1:N far y = 1:NY = 1'+y'

4. with the

will this affect in create how long it takes the algorithum to drain. Aus So the time complexity vill dremain same i're O(n2) but if we compare using dresult from # 1 ut may take sometime mere due to additional Operation y=ity so It due to Computational Overhead due to y=i+y at overy iteration of inner doop So it will have runtime Slightly higher vill it effect your results from # 1 So it will not affect the Jusults as the time longhing will bremain the same O(n2) so the coly touly does not affect the complexity