Anthury Churi waxa A Abam Yin 1223	1 + () + 2 (+ 6) (- (+ 1)) + (- (+ 1)) (+ 1)	retrict ret	中国 中国 1
recurrence Relation = 2 T(=) + G() = C()	2 (2 1 (%) + Cy) +	Buse Case; # elements in A = 1 This wises length = 1, left = 0, fight = 1 So the Max value is rethred fightlett) I. H. Assure full MaxHelper (A, (Fightlett)) gives may of adaes left of what tett) rate	the the the
1) a) The	Cluses for T(h)=2 = 2 = 2 = 2 T(lgh) T(lgh)	(16) Buse This so	Justine S The Justine S find Mar Help find M

llest value	ns there is and journish is from indet	lest element Tor this iteration, the ketween is and then * [ind]. Torony in the is were iteration toutings.	t in array Robert them	the the three they is the plant supported the plant supported to the plant supported t	
Invariant: The index of the smallest of arrang X from index 1 to j	Base case: Let) be good to M. Then is seently letement Letween index; and j. iom how contains that element, which is the smallest value of acray & from index is to).	Inductive step: Let j be equal to n-k. Assuc x [20m] is the smallest element between index i and j-1, For this iteration, x [j] is the smallest plement between i and j f x [j] is smaller than x [20m]. Interval contains j the invariant is maintained and the next loop iteration contacts	Involvent of it so, pach element in array x from index i to 11 25 greater them the element at index i-1.	Base Case, After the first thration of the loop is a loop of array x. This is because in the first iteration, the element of and the senallest element sumption the this indices. The invariant then holds, We then the the holds, We then the the trith indices it is next smallest element and sumption the with index i.	
of array X from contained in rom.	Bose case: Let is reportly leteren ion now contains the smallest value i to j.	En ridex ; Le small ; s for right of the small contains the small cont	ont It is	p i = 1 50 rallest element of course in the intex 0 and the dices. The invariant or thus the next on thus the next	
2)0) Invar	Base 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Asson Asson between x Cj.	2)b) Involu	Base C loop swall es becomse at well	

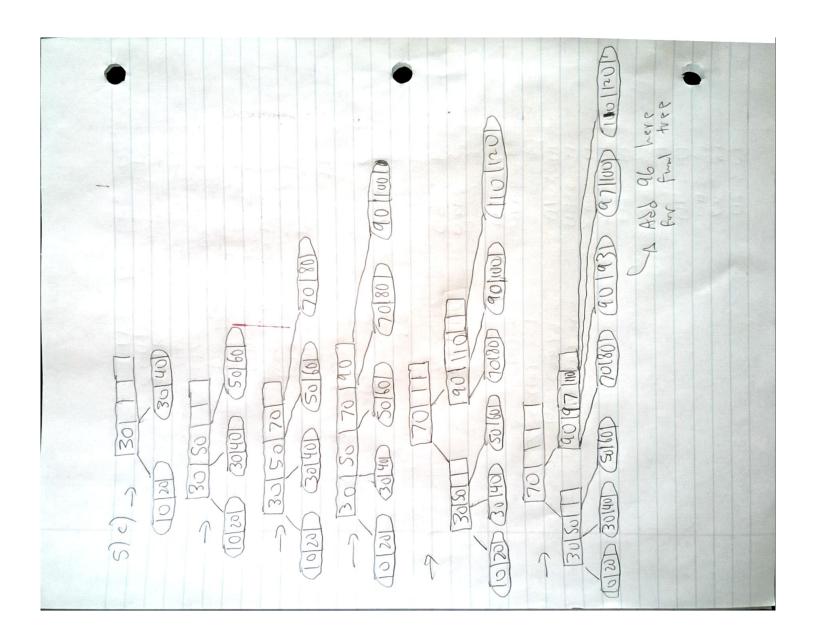
be and souther the places the places the corp, the places the corp of the places the corps of the co	22432 +	the covery 25 its correct 25 sortes.	larest element value? Sobres et in i Sobres et in i The form of the functions of orders	0
Inductive Step Stricts to the the the tright of the tright of the Surfed Fram To the troub of the tright of the tr	f it the moter of the more than and saying of the modern o	and loop B) the	slaces the control The the threety sep termined	
	Inductive Step stores of the start of the the tradity to the startest walvest at the elevent of	Using these 2 A Cubruh results sorted from a Base Case: I	from A Str. O do ?	

	Using the procentale pranciple, there must be and the same number of councertous, with the same New lets go back to the overant we bless	Lower to Five conjuders each, 24 one compander has no connections, Her we two connections, Her we two two of the strength of t	We already showed the exists & computers. Lith the same number of connections.	If more then one computer has no econocities for computers have the same muber of connections.	It we compared have no connections, then the same to compare the with by the programme prescribe connections. Again, by the programme personable, there will be 2 connections.	We have covered all coses of the problem.
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we me guorantera Let's soy that becompe 7 where Out of one ball and the balls such WIthout with with works Could green result buck

Either may, with only one how-blue lawket by but they	Once again, we take 2 buckets, tenue of the other buck, we take and place the other buck. We take bucket on yellow bould and to gueratee taken buckets will trave a yellow boul, ever place a yellow bould the place and solution. I know that solution to the point we have	1: R 2: RG 3-RGB & 4: RGBY 5: RGBY 6: GBY 7: BY 8: Y	By malyzing the immunia balls we record of each colour, we conclude that we need source to balls of each colour to result in a buckets frum 8 would result in all colours in a bucket,			
(ant)			0		9	

5) a) 6 = 110 2 = 90 3 = 80 4 = > 70 5 = 20 5 = 20 6 = 50 6 = 50 10 = 120 = 10	6 0: 22: 22: 22: 23: 23: 23: 23: 23: 23: 23



	0
5)D)	
06 02	
40 SO 60	
10(20/30	
(a(s	

6) b) MG = 1 W(1) = 2 N(L) = 1 + N(L-1) + M(L-2) F(D) = 0 F(1) + F(L-2) F(D) = 0 F(1) + F(L-2) We will prove this by the reason of the following the by the following the following the following the following the following to the following t
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Recon needs tot Hat 2, U.T.3