

Abraham	Murciano	-Data SI	tructures	HW7	ę2					-
5) node*	cotate RL (node*	}(a								
n	10de n1 = p;									+++
n n	node* $n1 = p$ ; node* $n2 = n1 \Rightarrow$ node* $n3 = n2 \Rightarrow$	> right;								++++
- M	10de no = n4-	7 (e4t;								
	$n2 \rightarrow left = n3 -$	right;								
	if (n2 > left) {	$in2 \rightarrow left$	-> parent =	n2;\$						
	n1 -> cight = n3 -	> loft:								
	if (n1, -right) {	nI -right	-> parent =	n1; }						
		<b>——</b>	1							
	$n3 \rightarrow left = n1$ $n1 \rightarrow porent = n3$									
	$n3 \rightarrow right = n2$ $n2 \rightarrow parent = n3$									
	return 13;						,			
3										
6) Max	nades in	AVL tree :	of height	h is act	reived in	a full	binary	tree.		
In a	rinum nodes in full binary tre	ee, each	level of	has 2' n	odes, s	so in b	levels,	there	ace:	
25 24	nodes.									
1.0										
2 <sup>t</sup> is	s a geometric	series ~	sith a=:	1 and	$\frac{c}{(1-2h)^2}$					
Sun	u of first h terr	ms of the	geometric	c series =	1-2 = 2	7				
							ls, roto	iting ar	ny unl	calanceo
node	Stort from the	ance fact	or #2. If	2 a balance	factor	>2 00	<-2	is found	d trai	ierse H.
the	tree down from	n the unba	alanced nod	de down the	other dir	ection un	til a =4	is found	d, baia	na That
nen	troverse upwar	ards trown	The Co. The	peci	balenter	1				