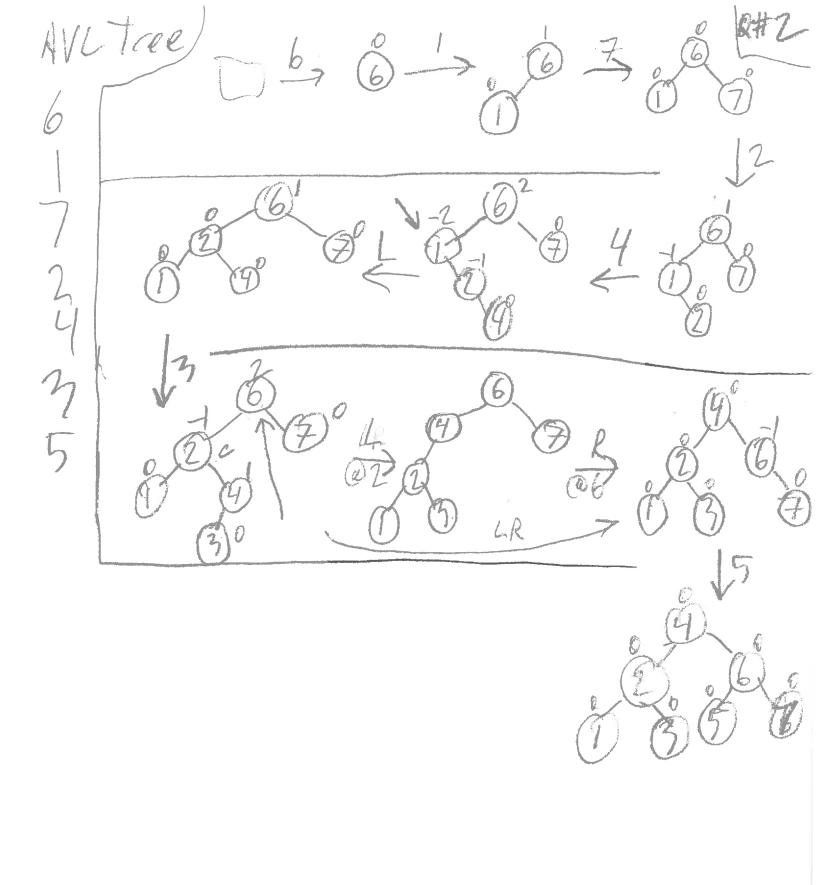


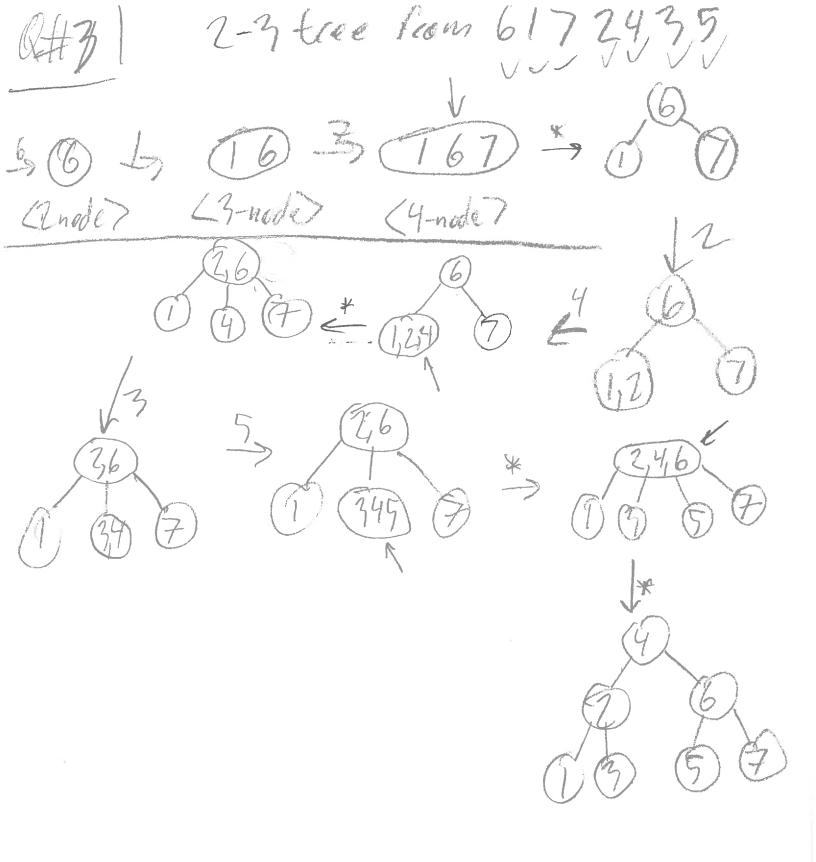
1. Do 6.1.8 (pg. 207). Please give clear pseudocode. A good answer should be easy to convert directly into working code. Max Epon Interval (List < Rair > () // Pair could just 2 - value Movject we define Max = 0Got (L) oh front value // Vie comparator or Loudog O(alogus) -> 1/ ordered by second item open = 0 MinH = Lemply min heap with capacity for allpairs) while (!LisEmpty()) if (MinHisize()>0 88 MinH, find_max() <= LLOJ, first) & Mintt. delete_max() Ologn) Sh the 900 -- open; norsteam & else & Lidelete (0) // delete 1st Jein insert (Ologa)) in times (flopen >max) max=open - Hu (09 11)

3 return max;

Lalternate, avoid a other data structure)

$\sim a$	
	HW7 Name: Key
	1. Do 6.1.8 (pg. 207). Please give clear pseudocode. A good answer should be easy to convert directly into working code.
	max Open Enterval (List < Intervals) {
	(1 st 2 Parl > ends,
((n)	1 (1 whereas)
	1 1 - C (Now Interval) Co - G)
,	and how last (lose interval, recome) to
anlogn	softends) // une custom comparison function // softends // une custom comparison function // soften secon value, on the close copen
	11 rect en recenvalue, on
	int open = 0
	int open =0
	for (int :=0; i < end q, qize; tti) } for (int :=0; i < end q, qize; tti) }
	gren
$\mathcal{O}(n)$	else & + open.
	if (open >max) max = open;
1	2

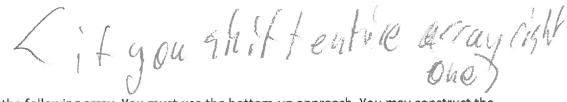




<if you copy first to end>

4. Max-Heapify the following array. You must use the bottom-up approach. You may construct the tree to show work. Give the resulting *array* at the end. You may assume the is extra capacity at the end.

the e	d.
Index Value	0 1 2 3 4 5 6 7 6 1 7 2 4 3 5 <empty></empty>
	91724396
A	500 900
	(S) (nothing)
	(1) (3) (5) (5) (2) (2) (2) (2) (2) (2) (2) (2) (2) (2
Commence of the second	17964192



4. Max-Heapify the following array. You must use the bottom-up approach. You may construct the tree to show work. Give the resulting array at the end.

tree to show work. Give the resulting array at the end.											
Index Value	0 6	1	7	3 2	4	5 3	6 5	7 <empty></empty>			
value	<u> </u>	1		_	4	- 3 -	And the same		12		
			(7					n=+	11st)		
					- 401	himeto		1/2=3	(1 / 1		
		(1)	(7)		thing to do a	7				
		X		AV							
	/	61	An	K	(5) ~	\		. / :	, /		
		4	U	U	1)K=3	,7 ve	1il to	Hact		
	1.4	- Appear					/				
(LUD	1/		12	//	12)						
sua, 1,4)	W		1/2	max (4	16)		0.00				
	0	-	,				(7)				
	(6)										
pa.						(4)		5)			
(4)		(5)		-	->	XX		PX .			
		M	and the same	6 ina	42	16/1	1) (5)	角			
	图	(5		() . Male	ra y	9					
(2) (1)		/ ~					1/	, is valid	Parel		
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			,					87			
			$\langle d$	one?		(4)		6			
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					(2)	1	1/3) (
*								/			
0 (2	7_	11 6									
0 1 2	7	47	6 7	and the same of th							
131214	11/1/	2/1	12 -								

3746211357 really 1 probably has 6, but don't care