Data Staicture; CS 21200 fall 2020	Md Shahid Emold 23726181
Prof Grearge Wolberg	Deblem 10.11
Final Chap	10-13)
Problem 10:1 B	SION -MESTER
Problem 10:2	H chiem (c.13
Problem 10.3 B	70101 modern
Problem 10.4	Problem 10:15 B
Problem 10.5	PROHESTI LOUL
Problems 10.6 A	
Problem 10.7	1111 Montalan A
Problem 10.8 and of Elimon	BNOT OFF INDE
Problem 10.9	Z. Re Ts Y
Problem' 10.10	

1 15 Jan 2 6/1 Did Sinchite (CS 2120) Checide (copperd Problem 10.4 (31-01 Brand) lami Problem 10.12 A Problem 10:13 maklar 5:01 1 9 Problem 10:14 Rolden 100 D Problem 10.15 Problem 10.4 13 Problem 10:16 0 Rokem Chapter U 0.6. Problem UI Rober 10,7 2 reasons: 1. The parent has to be equal or bigger Than the 2 children. [3 is bigger than 2] 2. Tree Ps not a complete. tree. 6.01 m 190 0 holden will

(3)

Jul malas Problem 11.2 910 1 July moldor! 77 1013 Mada 68 211 majolon (inserted 82) all maldos Problem 11:3 If you are a leaf, you can not go do con anymere. The reheapification downward process would also stop when the current node is not greater than or equal to its both child or not. Problem 11.4 ropton Lil2 If you are greater than your parents, then you can go up. The condition for reheapitication upward is in each step to check whether the key value of current node is greater than than its. parent or not. It not, we stop reheapification upward. pr

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Problem 11.5	SUL Made C
Problem 11:6	B DIE
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Problem 11:12	A Pill moltes
Leg value	Ale to post of the service of the se
	16 1/16 Opt motor 1/1/10 AVI 1

		hapter 12	1-31	MISANOL
	Problem 12.1	12.	7	1
	12345	6789 la) U [25]	13 14 15
/	From the beggin	begining:	90	
	(1) (2) 3 4 5 6	7 89 W	U -12 13	14 15 mallof
1	from the end	so spins	5 3	4
	12 33 42 5 16	789010	1 My 12 13	(4) (5)
	Problem 12:2		. C. O.	
	12,3 45 6	7883	0 - U (12)	13 14 15
	Problem 12:3			Proten
	Problem 12.4	C 2 4 5 3 6	2,0	,
	Topieni 12	D n		

Ang, 4,5 and 9.

Problem 12:5

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0.

B

Problem 12.6



Problem 12.7	1 slowie)		
E		1.51.51	Peles
Problem 12.8 11 01 0			
Chapter Problem 1311	13 (8 +)	5 h 8	30
of first iteration: 010	73891	75 28	54
Problem 13.2 5 3 8 1st iteration: 3 5 9	8 9 17 0 2 8 9 17 0 2	2 (4) 5 P 6 4) Roble
Problem 13.3	9	6.21 u	
3,0,	2, 4, 5,	8, 7, 6, N. 21	9 m./e/of
Ans. 4,5 and 9.	3	m 12:5	Proble
	(8)	n 12,6	maldan (

Problem 13.4 A good way for quicksort to Choose a pivot element is perform partition function. The partition function chooses some arbitary pivot elements and places it at the correct index positions, and finally divides the remaining array elements. However, all three steps does not necessarily happens in that order, but it completes the 3 steps. Gee-t copy to copy book from temple of Problem 13.125 United moment for the temp, dynamic a 538917 20 264 [[sn+1]] by war = using 5 pivot > 35 8 9 17 0 26 4 jerry Problem 13.6 12.5.3.89170264 temploopy ++] = distal copy 2+ 1]; // octobring 4 merge sort > 13589 02467 1 emplocity 1 + 1] = (data, + m) (explat + terry [copy +1] souter[copy 211]; temp [00041+1] = (data+ on)[00043+17] Land aluk sup margas " (++1:518+1012); ser

Hoblem 13.7 void merge (int dotal], size-t n 1, size-t n 2); fint *temp; 1 points to demanic array to hold elements. Size t copy 1, copy 2, copy 3 >= 0; "copy 1, copies the number of elements from data 11 copy 2, copies 1st half of data llcopy 3, copies 2nd half of data. Size-t copy book; 11 to copy book from temp to data Umaking memory for the temp, dynamic array temp = new int[n1+n2]; merging elements while ((copy 2 < n1) && (copy 3 < n2)) & { if (data [copy2]K (data+n1)[copy3]) temp[copy1++] = data[copy2++]; Mcopying the temp[copy 1++]=(data +nd) [copy3++], 11 copying the while (copy 2 < n1) temp [copy1+] = data[copy2++]; // copying while (copy 3 < n2) temp [copy1++] = (data+n)[copy3++) remaining for (120; icnitnz; i+t) // copying the data back data[i] ztemp[i]; from temp. dete [] temp; I releasing the temp's memory.

Problem 13.8 Problem 13.18 13 Problem 13.9 B Problem 13.19 Problem 13:10 0 13 Problem 13.4 Problem 13:12 0 Problem 13:13 1 Problem 13:14 Problem 13:15 D Problem 13,16 13 Problem 13.17 A