

© 2014 NPTEL - Privacy & Terms - Honor Code - FAQs -



In association with
NASSCOM®
Funded by

Parallel Algorithms - - Unit 3 - Week 02: Perfor...

Expression Tree	be self-simulating?	τµ
Merging and	Common	
Cole's Merge	Common	
Sort	Tolerant	
Week 07: Cole's	Arbitrary	
Merge Sort,	Priority	
Bound,	No, the answer is incorrect	
Connected	Score: 0	
Components	Accented Answers	
Week 08:	Tolerant	
Connected	E) O service and there are there also although V4. V0. and V0 are DDAMA	
Components,	5) Suppose we have three softing algorithms X1, X2, and X3 on PRAMS. X1 runs in $O(\log n)$ time using n log n processors.	1 p
and	X2 runs in $O(\log^2 n)$ time using $n \log n$ processors.	
Interconnection	X3 runs in $O(\log n \log \log n)$ time using $n/\log \log \log n$ processors.	
Networks	Which of the algorithms is/are optimal?	
Aigonunns		
Week 09:	only X1	
Interconnection	Only X1 and X3	
Algorithms	only X2	
3	only X2 and X3	
Interaction		
Session	No, the answer is incorrect.	
Week 10:	Score: 0	
Interconnection	Accepted Answers:	
Networks Algorithms		
Aigontinins	6) A CREW PRAM algorithm of 4 steps have degrees of parallelism of 1	0,14, <i>1p</i>
Week 11:	8 and 22 in its four steps. On a PRAM with 12 processors, the algorit	hm can b
Interconnection Networks	sinulated in steps.	
Algorithms	4	
	5	
Week 12:		
Complexity	6	
Theory	8	
	No, the answer is incorrect.	
	Score: 0	
	Accepted Answers:	
	6	
	7) When the balanced binary tree based parallel algorithm for finding	g prefix1 p
	sums is run on "1 2 4 6 9 13 18 25", what is the value send to the rig	ht child by
	the internal node whose sum is 65?	
	0 12	
	- 13	
	18	
	22	
	O 35	
	No the answer is incorrect	
	Score: 0	
	Accented Answers	
	35	

8) The pointer jumping based list ranking algorithm that we studied **1** point this week has a cost of

this week has a cost of	
$O(n\log n)$	
O(r)	
O(n)	
$O(n/\log n)$	202
$O(\log n)$	
No, the answer is incorrect. Score: 0	202
Accepted Answers: $O(n \log n)$	R
9) Pointer Jumping allows us to broadcast a piece of information over nodes in k steps.	1 point
— к	
k+1	
2k	
2"	
No, the answer is incorrect. Score: 0	
Accepted Answers: 2^k	
10An array Next is used to define a linked list in the following manner: Next[1]=6; Next[2]=3; Next[3]=NULL; Next[4]=5; Next[5]=1; Next[6]=8; Next[7]=2; Next[8]=7. Which node is ranked 1?	1 point
4	
O 3	
1	
8	
No, the answer is incorrect. Score: 0	
Accepted Answers: 4	
Previous Page End	

Parallel Algorithms - - Unit 3 - Week 02: Perfor...

R
R
ß
R