reviewer4@nptel.iitm.ac.in ▼ Courses » Parallel Algorithms Ask a Question **Progress** Announcements Course Unit 7 - Week 06: Applications of Optimal List Ranking algorithm, Expression Tree Evaluation, Merging and **Cole's Merge Sort** Register for **Certification exam** Assessment 6 The due date for submitting this assignment has passed. Course As per our records you have not submitted this Due on 2019-03-13, 23:59 IST. outline assignment. 1) An Euler circuit of a tree is "DHDBCBGBDEAEFED". If this tree is How to access 1 point the portal rooted at vertex "A", then a preorder traversal of the tree is Week 01: Models ABCDEFGH of Computation AEFDHBCG Week 02: ADHBCGEF Performance of AFEHDCBG parallel algorithms.Basic No the encuer is incorrect

Week 03: Basic Techniques

techniques

Week 04: Comparator Networks; List Colouring

Week 05: An **Optimal List** Ranking algorithm

Week 06: Applications of **Optimal List** Ranking algorithm, **Expression Tree** Evaluation,

Score: 0	
Accepted Answers: AEFDHBCG	
2) An Euler circuit of a tree is "DHDBCBGBDEAEFED". If this tree is rooted at vertex "G", then a postorder traversal of the tree is	1 point
AEFDHBCG	
BCDHEFAG	

No, the answer is incorrect. Score: 0

CHFAEDBG

DHEFACBG

**Accepted Answers:** 

**CHFAEDBG** 

3) An Euler circuit of a tree is "DHDBCBGBDEAEFED". If this tree is rantad at vartay "D" than the number of descendants of vartay "F" (including

1 point

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algorithm	0 6
Lecture 3: High	No, the answer is incorrect.
level Description	Score: 0
Quiz : Assessment 6	Accepted Answers:
Week 07: Cole's Merge Sort, Sorting Lower Bound,	4) The depth of the expression tree corresponding to "(4*(6+(3+2))+9)*8" <b>1 point</b> is (The depth of a tree is the number of edges in the longest root-to-leaf path in it.)
Connected Components	3
Week 08: Connected Components, Vertex Colouring and	4 5 6 No, the answer is incorrect.
Interconnection Networks Algorithms	Score: 0  Accepted Answers:
Week 09: Interconnection Networks Algorithms	5) In an expression tree nodes u, v and w have labels (4,1), (1,4) and <b>1</b> point (2,3) respectively. Node v holds a value of 8. Node u holds a multiplication operator and is the parent of v and w. Node v is a leaf. If a rake operation is applied
Interaction Session	on v, what will be the new label of w?  (48,72)
Week 10: Interconnection Networks Algorithms	(96,144) (48,73) (96,145)
Week 11: Interconnection Networks Algorithms	No, the answer is incorrect.  Score: 0  Accepted Answers: (96,145)
Week 12: Parallel Complexity Theory	6) Consider the expression tree corresponding to $(4*(6+(3+2))+9)*8$ . <i>1 point</i> Suppose the contraction algorithm is applied on this until the tree contracts to three vertices. The label of the left child of the root at this stage is
	(4,45) (4,9) (1,3) (44,9)
	No, the answer is incorrect. Score: 0 Accepted Answers:
	(4,45)
	7) With $\sqrt{m}$ processors a key value can be searched in an array of size $\sqrt{m}$ in $\Theta(\underline{\hspace{0.4cm}})$ time on a CREW PRAM.
	$\sqrt{m}$
	$\log m$

$\log \log m$
1
No, the answer is incorrect. Score: 0
Accepted Answers:
8) Cole's merge sort run on an array of size n executes stages. 1 pole.
$\log n$
$3\log n$
$3\log n + 3$
$3\log n + 1$
No, the answer is incorrect. Score: 0
Accepted Answers: $3 \log n$
9) If Cole's merge sort is run on the input "VL9E4K8TMWC2SJD7UYBR3NG5PQFA6XZH" (the same as the example in Lecture 18), at the end of the 7th stage the sample array at the great grand parent of leaf U would contain
■ BU
BRUY
3B
3BGU
No, the answer is incorrect. Score: 0
Accepted Answers: 3B
10)f Cole's merge sort is run on
<del>·</del>
O 2CJS
2CMW 27CD
© 2C
No, the answer is incorrect.
Score: 0 Accepted Answers:
2CJS

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End