Courses » Parallel Algorithms Announcements Course Ask a Question Progress FAQ

## Unit 4 - Week 03: Basic Techniques



## Course <br> outline

How to access the portal
Week 01: Models
of Computation

Week 02:
Performance of parallel algorithms,Basic techniques

Week 03: Basic
Techniques

- Lecture 1:

Basic
Techniques 3

- Lecture 2:

Basic
Techniques 4

- Lecture 3:

Basic
Techniques 5
Quiz :
Assessment 3
Week 04:
Comparator
Networks; List
Colouring
Week 05: An
Optimal List
Rankina

## Assessment 3

The due date for submitting this assignment has passed.
As per our records you have not submitted this Due on 2019-02-20, 23:59 IST. assignment.

1) When the minimum algorithm that uses accelerated crowding on COMMON CRCW 1 point PRAM is invoked on an array of size $n$ with $2 n$ processors, the size of the problem after the third size reduction is


No, the answer is incorrect.
Score: 0
Accepted Answers:
n/128
2) If the divide and conquer algorithm for finding prefix sums is run on "4, 1 point $8,1,3,9,6,8,7$ ", then what is the last operation performed to find the prefix sum value corresponding to input element 6 ?


No, the answer is incorrect.
Score: 0
Accepted Answers:
16+15
3) With $p$ processors, where $1 \leq p \leq n \log \log n$, the minimum $\quad 0$ points of $n$ numbers can be found on a CRCW PRAM in $\Theta(\square)$ time.

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| Expression Tree <br> Evaluation, <br> Merging and <br> Cole's Merge <br> Sort | No, the answer is incorrect. |  |
| :--- | :--- | :--- |



No, the answer is incorrect.
Score: 0
Accepted Answers:
3
8) If three consecutive notes $x, y$ and $z$ of a linked list are coloured 43, 121 point and 28 respectively now, then after one step of symmetry breaking, the colours $x$ and $y$ would be $\qquad$ respectively1 and 81 and 102 and 76 and 6
No, the answer is incorrect.
Score: 0
Accepted Answers:
1 and 8
9) Say, $\mathrm{a}=12$ and $\mathrm{b}=28$. Let c be the bitwise XOR of a and b . Let $\mathrm{d}=\mathrm{c}-1 . \quad 1$ point Then the bitwise XOR of $c$ and $d$ has a numerical value of $\qquad$
No, the answer is incorrect.
Score: 0
Accepted Answers:
31
10)f a linked list is now coloured using 14-bit natural numbers, then after 1 point one step of symmetry breaking, it would be coloured using natural numbers of how many bits?


No, the answer is incorrect.
Score: 0
Accepted Answers:
5

