# x <br> Unit 9 - Week 08: Connected Components, Vertex Colouring and Interconnection Networks Algorithms 




```
        \sqrt{}{N}\operatorname{log}N
        N
    O
            \sqrt{}{N}
        N log N
```

No, the answer is incorrect.
Score: 0
Accepted Answers:
$N \log N$
10) In an $N$-node linear array, in which every processor holds a bit, odd even transposition sort is run. The rightmost 1 point
1 occurs at position 8 . It will reach its destination in step number
$N-8$

$N$
0
$N-1$
-

$$
N-7
$$

No, the answer is incorrect.
Score: 0
Accepted Answers:
$N-7$
11) In a list, the logical order of the vertices is $A B C D E F G H$. The list is to be ranked from $A$. The vertices $A, B, C, D, E, 1$ point $F, G, H$ have weights of $4,6,2,3,1,2,4,9$ respectively. Vertices $C, E$ and $G$ are spliced out as is done in the list contraction we studied in Lecture 13. What are the new ranks of $A, B, D, F$ and $H$ ?$4,6,5,3,13$$4,8,5,6,9$$4,6,3,3,1$4, 6, 3, 1, 9

No, the answer is incorrect.
Score: 0
Accepted Answers:
4, 6, 5, 3, 13

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