Interview Questions: Elementary Sorts (ungraded)

Practice Quiz, 3 questions



Next Item



1/1 point

1.

Intersection of two sets. Given two arrays $\mathbf{a}[]$ and $\mathbf{b}[]$, each containing n distinct 2D points in the plane, design a subquadratic algorithm to count the number of points that are contained both in array $\mathbf{a}[]$ and array $\mathbf{b}[]$.

Note: these interview questions are ungraded and purely for your own enrichment. To get a hint, submit a solution.

Subquadratic Algorithm!



Your answer cannot be more than 10000 characters.

Thank you for your response.

Hint: shellsort (or any other subquadratic sort).



1/1 point

2

Permutation. Given two integer arrays of size n, design a subquadratic algorithm to determine whether one is a permutation of the other. That is, do they contain exactly the same entries but, possibly, in a different order.

you for your response. Don't both arrays.	Your answer cannot be more than 10000 charac
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	Toda driswer ediffice be more than 10000 chards
of Court arrays.	
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ponit	
ational flag. Given an array of n buckets, each containing	ing a red, white, or blue pebble, sort them b
e allowed operations are:	
(i,j): swap the pebble in bucket i with the pebble in b	ucket j .
i): determine the color of the pebble in bucket i .	
ormance requirements are as follows:	
st n calls to $color()$.	
st n calls to $swap().$	
ant extra space.	
hat's crazy.	
-	
	Your answer cannot be more than 10000 chara
	. 52. drisher carried se more than 10000 chara-
you for your response. -way partitioning.	

https://www.coursera.org/learn/algorithms-part1/quiz/cjwBY/interview-questions-elementary-sorts-ungraded

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