Practice Quiz, 3 questions



Next Item



1/1 points

1.

Intersection of two sets. Given two arrays a[] and 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 a[] and array b[].

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

merge a and b after sort and counting

Your answer cannot be more than 10000 characters.

Thank you for your response.

Hint: shellsort (or any other subquadratic sort).



1/1 points

Permutation. Given two integer arrays of size n, design a subquadratic algorithm to determine whether one is a

Interview Questions: Elementarys Sorts (ungraded) he

3/3 points (100%)

Practice Quiz, 3 questions same entries but, possibly, in a different order.

binary search			

Your answer cannot be more than 10000 characters.

Thank you for your response.

Hint: sort both arrays.



1/1 points

3.

Dutch national flag. Given an array of n buckets, each containing a red, white, or blue pebble, sort them by color. The allowed operations are:

- swap(i,j) : swap the pebble in bucket i with the pebble in bucket j .
- color(i) : determine the color of the pebble in bucket i .

The performance requirements are as follows:

- At most n calls to color() .
- At most n calls to swap() .
- Constant extra space.

Interview Questions: Elementary Sorts (ungraded)

3/3 points (100%)

Practice Quiz, 3 questions

Your answer cannot be more than 10000 characters.

Thank you for your response.

Hint: 3-way partitioning.

