✓ Congratulations! You passed!

Next Item



1/1 point

1

4-SUM. Given an array $a[\]$ of n integers, the 4-SUM problem is to determine if there exist distinct indices i,j,k, and l such that a[i]+a[j]=a[k]+a[l]. Design an algorithm for the 4-SUM problem that takes time proportional to n^2 (under suitable technical assumptions).

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

4 - SUM problem in n^2 complexity

Your answer cannot be more than 10000 characters.

Thank you for your response.

Hint: create a hash table with $\binom{n}{2}$ key-value pairs.



1/1 point

2.

Hashing with wrong hashCode() or equals(). Suppose that you implement a data type <code>OlympicAthlete</code> for use in a <code>java.util.HashMap</code>.

- Describe what happens if you override hashCode() but not equals().
- Describe what happens if you override equals() but not hashCode().
- Describe what happens if you override hashCode() but implement public boolean equals(OlympicAthlete that) instead of public boolean equals(Object that).

Rৰ্কাশেন্ত্ৰপাঞ্জান্তঃ: Hash Tables (ungraded) Practice Quiz, 2 questions	
_	Your answer cannot be more than 10000 characte
Thank you for your response. Hint: it's code—try it and see!	
P	