Quiz Submissions -	- Hash	Tables	Reading	Ouiz
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Retaken Attempt 2

Written: Apr 9, 2022 11:03 PM - Apr 9, 2022 11:03 PM

Submission View

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Question 1 Retaken

1 / 1 point

A hash function (select all that apply):

- transforms a key into an array index.
- is implemented in Java using the hashCode() method.
- can only work on strings.
- can only work on integers.

Question 2 Correct on previous attempt(s)

1 / 1 point

Modular hashing transforms an integer K into an array index by computing K % M, where M is usually a prime number.

- True
- False

Question 3 Retaken

1 / 1 point

If k1 and k2 are key values, then

- (a) if k1.equals(k2) is true, then k1.hashCode() must be equal to k2.hashCode().
- \bigcirc if k1.equals(k2) is false, then k1.hashCdoe() must not be equal to k2.hashCode().

4/9/22, 11:05	PM Quizzes - Sp22 Algorithms/Data Structure 2002 Secs 10-90 - Norm if k1.hashCode() is equal to k2.hashCode(), then k1.equ	
Questi	ion 4 Correct on previous attempt(s)	1 / 1 point
[0,M)	lly, a hash function should uniformly distribute keys among), where M is the size of the hash table. This is refered to a mption.	
	True	
	False	
Q	Question 5 Retaken	1 / 1 point
	always possible to guarantee that two unequal keys will alw e array indices.	vays hash to different hash
	True	
	• False	
Questi	ion 6 Correct on previous attempt(s)	1 / 1 point
A col	llision occurs when two unequal keys hash the same array	index.
	True	
	False	
Questi	ion 7 Correct on previous attempt(s)	1 / 1 point
Sepa	rate chaining handles hash table collisions by:	
	storing the new key in the next available empty entry in	n the hash table.
	• having each hash table entry be a linked list of keys that	at hash to that index.
	overwriting the hash table entry with the new key.	
Questi	ion 8 Correct on previous attempt(s)	1 / 1 point
Linea	ar probing handles hash table collisions by:	
	having each hash table entry be a linked list of keys that	at hash to that index.
	overwriting the hash table entry with the new key.	

storing the new key in the next available empty entry in the hash table.

Question 9 Retaken	1 / 1 point
The load factor, alpha, of a hash table is alpha = N / M , where:	
N is the hash table size, and M is the number of entries in the has	h table.
N is the number of entries in the hash table, and M is the number in the hash table.	of empty slots
N is the number of entries in the hash table, and M is the hash tab	le size.
Question 10 Correct on previous attempt(s)	1 / 1 point
With separate chaining, alpha may be greater than 1.	
True	
False	
Question 11 Correct on previous attempt(s)	1 / 1 point
With linear probing, alpha may be greater than 1.	
True	
False	
Attempt Score:	11 / 11 - 100 %

Overall Grade (highest attempt): 11 / 11 - 100 %

Done