## Review Test - Algorithm and Data Structures

Max:Marks-10 Time: 10 min pranitt1398@gmail.com Switch account Draft saved \* Required Email \* pranitt1398@gmail.com Name \* Pranit Tondvalkar PRN \* 220960920085

If removing element from heap then *	1 point
Only child element is deleted in a heap	
Only root element is deleted in a heap	
Any element can deleted in a heap	
None of above	

A hash table of length 10 uses open addressing with hash function h(k)=k 1 point mod 10, and linear probing. After inserting 6 values into an empty hash table, the table is as shown below

Which one of the following choices gives a possible order in which the key values could have been inserted in the table?

0	
1	
2	42
3	23
4	34
5	52
6	46
7	33
8	
9	

- 46, 42, 34, 52, 23, 33
- 34, 42, 23, 52, 33, 46
- 46, 34, 42, 23, 52, 33
- 42, 46, 33, 23, 34, 52

Clear selection

In hash functions Division Method : *	1 point
h(k) = k mod M Here,	
k is the key value, and What is M?	
Square the value of the key k	
Size of the hash table.	
Multiplication	
What is the formula used in Linear probing?	1 point
Hash key = key mod table size	
Hash key=(hash(x)+F(i)) mod table size	
$\bigcirc$ Hash key=(hash(x)+F(i^2)) mod table size	
$H(x) = x \mod 17$	
	Clear selection
What is the formula used in quadratic probing? *	1 point
Hash key = key mod table size	
Hash key=(hash(x)+F(i)) mod table size	
Hash key=(hash(x)+F(i^2)) mod table size	
$H(x) = x \mod 17$	

Which of table?	the following technique is used for handling collisions in a hash	1 point
Oper	n addressing	
O Hash	ning	
O Searc	ching	
O Hash	function	
	Clear s	selection
What is t	he time complexity of delete function in the hash table using list	1 point
<b>O</b> (1)		
O(n)		
O(log	յ n)	
O(n l	og n	
	Clears	selection
What is t	he time complexity of search function in a hash table using list	1 point
<b>O</b> (1)		
O(n)		
O(log	ງ n)	
O(n l	og n)	

Which of the following helps keys to be mapped into addresses?	1 point
Hash function	
Separate chaining	
Chaining using a linked list list	
	Clear selection

Let us consider a list of numbers (34, 16, 2, 93, 80, 77, 51) and has table size 1 point is 10. What is the order of elements(from index 0 to size-1) in the hash table?

- null, null, 77, 16, null, 34, 93, 2, 51, 80
- 77, 16, 34, 93, 2, 51, 80
- 80, 51, 2, 93, 34, null, 16, 77, null, null
- 80, 51, 2, 93, 34, 16, 77

Clear selection

Page 1 of 1

Clear form Submit

Never submit passwords through Google Forms.

This content is neither created nor endorsed by Google. Report Abuse - Terms of Service - Privacy Policy

## Google Forms