

Question	-	1
Question 1		

SCORE: 5 points

If several elements are competing for the same bucket in the hash table, what is it called?

- Diffusion
- Replication
- Collision
- None of the mentioned

Question - 2
Question 2

SCORE: 5 points

A hash table of length 10 uses open addressing with hash function  $h(k)=k \mod 10$ , 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?

42
23
34
52
46
33

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

Question - 3
Question 3

SCORE: 5 points



into location 2, with hash functions resolving collisions by linear probing is			
	0.1		
•	0.7		
	0.2		
	0.6		
Question Question		SCORE: 5 points	
	tage of separate chaining as an implementation of a hash table near probing scheme is:		
	Space used is less		
•	Deletion is easier		
	Worst case complexity of search operations is less		
	None of the above		
Questic Linear Pr	on - 5 obing Hash Table	SCORE: 30 points	
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Please implement the *put* and *get* methods for a linear probing hash table.