	T	I		T	
serial #	Test Case	visibility	difficulty	score	Comment Tasking default ages of open addressing probe where w = 10, aged for random number conceptor = 0;
					Testing default case of open addressing probe, where $w = 10$, seed for random number generator = 0: $g(k, i)$ fails for $k = 1, i = 0$
0	addressing.probe(1, 0)==30	Public	Easy	4	Expected output: 30
			,		Testing i of open addressing probe, where w = 10, seed for random number generator = 0:
					g(k, i) is called with $k = 1$, $i = 1$
1	addressing.probe(1, 1)==31	Public	Easy	4	Expected output: 31
					Testing i modulo of open addressing probe, where w = 10, seed for random number generator = 0:
					g(k, i) is called with $k = 1$, $i = 3$
2	addressing.probe(1, 3)==1	Public	Easy	4	Expected output: 1
					Testing a different key for open addressing probe, where w = 10, seed for random number generator = 0:
2	addressing.probe(2, 0)==28	Private	Easy		g(k, i) is called with k = 2, i = 0 Expected output: 28
3	addressing.probe(2, 0)==20	riivate	Lasy	-	Testing a different key for open addressing probe, where w = 10, seed for random number generator = 0:
4	addressing.probe(4, 0)==25	Private	Easy	4	g(k, i) is called with k = 4, i = 0 Expected output: 25
					Testing default case of chaining probe with w = 10, seed for random number generator = 0:
					h(k) is called with k = 1
5	chaining.chain(1)==30	Public	Easy	4	Expected output: 30
					Testing a different key for chaining probe with w = 10, seed for random number generator = 0:
_			_		h(k) is called with k = 4
6	chaining.chain(4)==25	Public	Easy	4	Expected output: 25 Testing a different key for chaining probe with w = 10, good for random number concretes = 0;
					Testing a different key for chaining probe with w = 10, seed for random number generator = 0:
7	chaining.chain(8)==19	Public	Easy	4	h(k) is called with k = 8 Expected output: 19
,	channing.channo)==10	T dbiic	Lusy		Testing a different key for chaining probe with w = 10, seed for random number generator = 0:
					h(k) is called with k = 16
8	chaining.chain(16)==6	Private	Easy	4	Expected output: 6
					Testing insert key through chaining:
					inserted the key 0 to a hash table
9	chainInsert.insertKey(0)	Private	Easy	4	Expected Output: Size of the table should increase by 1 after the insertion
	chainInsert.insertKey(32); chainInsert.insertKey(52);				Testing collision after inserting 32, 52, 72 through chaining:
10	chainInsert.insertKey(72)	Private	Easy	4	Expected Output: Number of collisions should be equal to 2
					Testing insertKey() function of open addressing:
					0 is inserted into the hash table
11	openInsert.insertKey(0)	Private	Easy	4	Expected Output : When probing the hash table with 0, probe() function should return 0
- "	try {	riivate	Lasy	-	Expected Output : When probing the hash table with 0, probe() function should return 0
	openInsertFull.insertKey(33);				
	}				Testing insert key when the hash table is full:
	catch(Exception e){ return new GraderManager.Mark(0, 1);				insert key 33 to an already full hash table thorugh open addressing.
12		Private	Easy	4	Expected output: should throw an error
	openInsert.insertKey(32); openInsert.insertKey(52);				Testing collision offer inserting 22, 52, 72, 02 through insertKey/) of open addressing
	openInsert.insertKey(72);				Testing collision after inserting 32, 52, 72, 92 through insertKey() of open addressing:
13	int collisions = openInsert.insertKey(92)	Private	Medium	6	Expected output: Number of collisions should be equal to 3 after inserting 92
					Testing remove key default case for open addressing:
					Removed key 0 from the hash table.
14	openInsert.removeKey(0)	Private	Easy	4	Expected output: Key 0 should no longer be in the hash table.
					Testing remove key more than 1 collided case of open addressing:
					Removed key 52 from the hash table.
15	openInsert.removeKey(52) return openInsert.Table[14]!=52	Private	Medium		
15	return openinsent. rable[14]:-52	riivale	Wedidiff	0	Expected output: Table[14] should no longer hold 52 Testing remove key with more than 1 collided then adding a key back:
					insert 32, 52, insert 72, remove 52, insert 92
					insert 32> Table[13] = 32
					insert 52> Table[14] = 52 insert 72> Table[15] = 72
					remove 52> Table[14] is empty insert 92> Table[14] = 92
	insert 32, 52, 72				
16	remove 52 insert 92	Private	Medium	6	Expected output: Table[13] = 32, Table[14] = 92, Table[15] = 72
10					Testing collisions in open addressing:
	openInsert.insertKey(69); openInsert.insertKey(89);				insert 69, 89, 109, 129
	openInsert.insertKey(109);				remove 109
17	openInsert.insertKey(129); int collisions = openInsert.removeKey(109);	Private	Medium	6	Expected output: number of collisions after removing 109 should be 2
17				•	Testing collisions with open addressing if key is not in HashTable:
	openRemoveInvalidKey.insertKey(32); openRemoveInvalidKey.insertKey(52);				
	openRemoveInvalidKey.insertKey(72);				insert 32, 52, 72, 92 remove 1
10	openRemoveInvalidKey.insertKey(92); collisions = openRemoveInvalidKey.removeKey(1);	Private	Hard	10	Expected Output: number of collisions on trying to remove non-existent key 1 should be 1
18	osino.ono – oponi temovenivaliuney.letiloveney(1),	. IIVaiC	-luiu	10	Testing visits with open addressing in removeKey() if key one key is removed and the
					second key is not in HashTable:
					insert 32, 52, 72, remove 32,
	openRemoveInvalidKey.insertKey(32);				remove 92
	openRemoveInvalidKey.insertKey(52); openRemoveInvalidKey.insertKey(72);				Expected Output: number of visits on trying to remove non-existent key 92 should be 4,
10	openRemoveInvalidKey.removeKey(32); collisions = openRemoveInvalidKey.removeKey(92);	Private	Hard	10	which will happen if the symbols for EMPTY and REMOVED are different. Otherwise removeKey() could have missed the real key if it were present
19	osilisions – openitemovemvaliuney.lemoveney(92);	. IIVUIC	-luiu	100	Sound have missed the roth key in it work present
		Quantity	Weight	Total	
	Easy	14			
	Medium	4			
	Hard	2	10		
	Total			100	