	IDESQAS01
	– What is the worst-case time for linear search finding a single item in an array?
	~ .
	Select one:
0	Logarithmic time.
0	Linear time.
0	Constant time.
•	
	Quadratic time.
	IDESQAS03
	<ul> <li>What is the worst-case time for finding a key in a hash table (assume that there is no</li> </ul>
	collision)?
	Select one:
0	
0	Constant time.
•	
	Linear time.
О	Quadratic time.
	Opadrade time:
O	Logarithmic time.
	IDESQAS04
	- What additional requirement is placed on an array, so that binary search may be used to search
	for a key?
	Tot a key:
	Select one:
0	The array elements must form a heap.
•	The array must be sorted.
О	
	The array must have at least 2 entries.
0	The array's size must be a power of two.
	IDESQAS05
	- What is the best definition of a collision in a hash table?
	what is the best definition of a comsion in a mash table.
	Select one:
•	Two entries with different keys have the same exact hash value.
0	Two entries are identical except for their keys.
0	
	Two entries with the exact same key have different hash values.

0	Two entries with different data have the exact same key.
C	IDESQAS06  — A separate chaining hash table has an array size of 512. What is the maximum number of entries that can be placed in the table?  Select one: There is no maximum.
0	<ul><li>256.</li><li>1024.</li></ul>
<ul><li>○</li><li>○</li></ul>	512. 511.
	IDESQAS10 – Consider a hash table of size seven, with starting index zero, and a hash function $h(k)=(3k+4)$ mod 7. What is the address of the key $k=10$ ?
0	Select one: 3. 0. 7. 6.
	IDESQAS11
	<ul> <li>Complete the code below to search for key in an array using linear seach algorithm?</li> <li>Select one:</li> </ul>
О	-1.
O	true.
O	a[i].
0	<mark>i.</mark>
	IDESQAS12  — In a hash table of the size N using linear probing, what is the probing hash function hi(k)?
C	Select one: $hi(k)=(h(k)+i) \mod N$ .

0	hi(k)=i mod N.
•	$hi(k)=h(k) \mod N$ .
0	hi(k)=i + k.
	IDESQAS13  — Given the following input (4322, 1334, 1471, 9679, 1989, 6171, 6173, 4199) and the hash function: h(k)=k mod 10. Which of the following statements are true?
	Select one:
0	All elements hash to the same value.
0	1471 and 6171 has to different value.
0	Each element hashes to a different value.
•	4199 and 9679 hash to the same value.
	IDESQAS14  — In the context of seach algorithms, which of the following statements are true?  Select one:
С	Binary search is the fastest search algorithm.
0	Linear search is faster than binary search.
О	Hash data structure is used to support sorting.
$\odot$	Binary search is faster than linear search, but it requires a sorted array.
	IDESQAS15  - Which of the following statements is used in binary search algorithm to halve the array?
	Select one:
0	middle=middle/2
0	middle=(right-left)/2
•	middle=(left + right)/2
0	middle=midlle*2