CS23336-Introduction to Python Programming

Started on	Saturday, 9 November 2024, 3:40 PM
State	Finished
Completed on	Saturday, 9 November 2024, 3:50 PM
Time taken	10 mins 50 secs
Question 1	
Complete	
Marked out of 1.00	
Flag question	

Question text

In the context of searching, what is a successful search?

Question 1 Answer
•
a.
When the element is found in the list
0
b.
When the list contains duplicate elements
0
C.
When the search algorithm finishes
0
d.

When the list is sorted

Question 2	
Complete	
Marked out of 1.00	
Flag question	
	Question text
	What is the time complexity of binary search in the worst case?
	Question 2 Answer
	•
	a.
	O(log n)
	0
	b. O(n log n)
	O
	C.
	O(1)
	О
	d.
	O(n)
Question 3	
Complete	
Marked out of 1.00	
Flag question	

Question text

Which of the following statements about linear search is true?

	Question 3 Answer
	 a. Linear search can be applied to both sorted and unsorted lists.
	b.Linear search is more efficient than binary search on large lists.
	C. Linear search requires the list to be sorted.
	d. Linear search divides the list into halves.
Question 4 Complete Marked out of 1.00	
Flag guestion	
Flag question	Question text What type of search would be most appropriate for finding an element in a list that is frequently updated?
Flag question	What type of search would be most appropriate for finding
Flag question	What type of search would be most appropriate for finding an element in a list that is frequently updated?
Flag question	What type of search would be most appropriate for finding an element in a list that is frequently updated? Question 4 Answer O a.

	Linear search
	0
	d.
	Hash search
Question 5	
Complete	
Marked out of 1.00	
Flag question	
	Question text
	Finding the location of a given item in a collection of items is called
	Overthan F. Arrayan
	Question 5 Answer
	О
	a. Mining
	•
	b.
	Searching
	0
	C.
	Finding
	O d.
	Discovering
Question 6	
Complete	
Marked out of 1.00	
Flag question	

Question text

Which method of searching involves sequentially comparing each element until a match is found?

	Question 6 Answer
	0
	a. Hashing
	0
	b. Binary search
	•
	c. Linear search
	0
	d. Jump search
Question 7	
Complete	
Marked out of 1.00 Flag question	
Triag question	
	Question text
	In a linear search, how many comparisons are made in the worst-case scenario to find an element in a list of size n?
	Question 7 Answer
	0
	a. n/2
	0
	b. log n

Question 8	© c. n O d. 1
Complete	
Marked out of 1.00	
Flag question	
	Question text During a binary search, what happens if the target element matches the middle element?
	Question 8 Answer
	 a. The search ends successfully b. The list is sorted
	C. The search continues in the right sublist O d. The search continues in the left sublist
Question 9 Complete Marked out of 1.00	

Question text

	search?
	Question 9 Answer
	O a. When the list is small and sorted
	O b. When the list is large and unsorted
	c. When the list is small and unsorted
	O d. When the list is large and sorted
Question 10	
Complete Warked out of 1.00 Flag question	
	Question text Which of the following is a limitation of binary search?
	Question 10 Answer
	a.It requires the list to be sorted
	O b.

	It can only be applied to large lists
	О
	c.
	It is slower than linear search for small lists
	0
	d.
	It does not work with negative numbers
Question 11	
Complete	
Marked out of 1.00	
Flag question	
. J. 4	
	Question text
	In linear search, how is the element searched?
	Question 11 Answer
	a.
	By comparing each element in the list sequentially
	0
	b.
	By sorting the list first
	0
	C.
	By using a hash function
	0
	d.
	By dividing the list into halves
Question 12	
Complete	
Marked out of 1.00	

Question text

	What happens in a binary search if the list has an even number of elements?
	Question 12 Answer
	O a. The search stops
	O b. The lower middle element is chosen as the middle element
	c.The higher middle element is chosen as the middle element
	O d. The middle element is chosen randomly
12	
Question 13 Complete Marked out of 1.00 Flag question	
Complete	
Complete Marked out of 1.00	Question text Which of the following is a type of searching method?
Complete Marked out of 1.00	
Complete Marked out of 1.00	Which of the following is a type of searching method?

	Merge search
	O c.
	Quick search
	O d. Bubble search
Question 14	
Complete	
Marked out of 1.00 Flag question	
	Ouestion text In checks the elements of a list, one at a time, without skipping any element.
	Question 14 Answer
	O a. Both (1) & (3)
	O b. Binary search
	© c. Linear search
	O d. Hash search

Complete Marked out of 1.00 Flag question Question text What happens when the element is found in linear search? **Question 15 Answer** 0 a. The search continues until the end of the list ◉ b. The search stops immediately О C. The search backtracks to find duplicate elements О d. The search starts over from the beginning

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