CS23336-Introduction to Python Programming

Started on Monday, 11 November 2024, 9:28 PM

State Finished

Completed on Monday, 11 November 2024, 9:38 PM

Time taken 10 mins 12 secs

Question 1

Complete Marked out of 1.00 Flag question

—Question 1 Answer—

Question text

What is the best-case time complexity of linear search?

a.		
O(log n)		
b.		
$O(n \log n)$		
C.		
O(n)		
d.		
O(1)		

Question 2

Complete Marked out of 1.00 Flag question

Question text

In which type of search is the list divided into smaller sublists during the search process?

- Question 2 Answer

a.
Hash search
b.
Linear search
c.
Binary search

d.		
Sequential search		

Complete Marked out of 1.00 Flag question

Question text

What is the advantage of binary search over linear search?

Question 4

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Question text

	a.
ı	Checking each element sequentially
	b.
	Skipping every second element
	C.
	Dividing the list in half repeatedly
	d.
ı	Sorting the list before searching

Question 5

Complete Marked out of 1.00 Flag question

Question text

What is searching in the context of computer science?

- Question 5 Answer
a.
Determining whether an element is present in a list
b.
Inserting elements into a list
C.
Sorting elements in a list
d.
Deleting elements from a list

Question 6

Complete Marked out of 1.00 Flag question

—Question 6 Answer –

Question text

Given an array arr = {45,77,89,90,94,99,100} and key = 100; What are the mid values(corresponding array elements) generated in the first and second iterations?

and 94	
and 100	
and 99	
and 99	

Question 7

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Question text

Which of the following is a conventional searching technique?

— Question / Answer————————————————————————————————————
a.
Linear search
b.
Dynamic search
C.
Binary search
d.
Hashing

Question 8

Complete Marked out of 1.00 Flag question

Question text

In binary search, if the target element is less than the middle element, where does the search continue?

— Ouestion 8 Answer

Question of this wer
a.
In the entire list
b.
In the right sublist
C.
In the left sublist
d.
At the beginning of the list

Question 9

Complete Marked out of 1.00 Flag question

Question text

During a linear search, what is the maximum number of comparisons needed to find an element in a list of size n?

—Question 9 Answer——		
a.		
log n		
log n		
b.		
n		
С.		
n-1		
d.		
n/2		

Complete Marked out of 1.00 Flag question

-Question 10 Answer-

Question text

Finding the location of a given item in a collection of items is called

arching	
scovering	
ning	
nding	

Question 11

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Question text

The average case occurs in the linear search algorithm

a. When the item is somewhere in the middle of the array b. Item is the last element in the array or item is not there at all c. When the item is the last element in the array d.	-Question 11 Answer-
When the item is somewhere in the middle of the array b. Item is the last element in the array or item is not there at all c. When the item is the last element in the array d.	
b. Item is the last element in the array or item is not there at all c. When the item is the last element in the array d.	a.
Item is the last element in the array or item is not there at all c. When the item is the last element in the array d.	When the item is somewhere in the middle of the array
Item is the last element in the array or item is not there at all c. When the item is the last element in the array d.	
c. When the item is the last element in the array d.	b.
When the item is the last element in the array d.	Item is the last element in the array or item is not there at all
When the item is the last element in the array d.	
O d.	C.
	When the item is the last element in the array
When the item is not the array at all	d.
Then the item is not the thirty of the	When the item is not the array at all

Complete Marked out of 1.00 Flag question

Question text

In linear search, how is the element searched?

Cuestion 12 Answer
a.
By dividing the list into halves
b.
By using a hash function
c.
By comparing each element in the list sequentially
d.
By sorting the list first

Question 13

Complete Marked out of 1.00 Flag question

Question text

What happens in a binary search if the list has an even number of elements?

Question 13 Answer————————————————————————————————————
a.
The lower middle element is chosen as the middle element
b.
The middle element is chosen randomly
C.
The search stops
d.
The higher middle element is chosen as the middle element
Question 14
Complete
Marked out of 1.00
Flag question
Question text
In hinary, coarch, what happens if the middle element does not match the target element?
In binary search, what happens if the middle element does not match the target element?
Question 14 Answer

Question 14 Aliswei
a.
The search continues in the left or right sublist
b.
The list is sorted
C.
The search continues from the beginning
d.
The search stops

Complete Marked out of 1.00 Flag question

Question text

In which situation is linear search more efficient than binary search? —Question 15 Answer—		
	- Question 13 Answer	
	a.	
	When the list is large and sorted	
	b.	
	When the list is small and sorted	

©

When the list is small and unsorted



d.

When the list is large and unsorted

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