d. 100 REC-OCATS-1

CS23336-Introduction to Python Programming

Completed on Sunday, 17 November 2024, 10:17 AM Time taken 11 mins 1 sec Question 1 Complete Marked out of 1.00 Filag question Question text Which of the following is not a limitation of binary search algorithm? —Question 1 Answer a. Must use a sorted array b. b. There must be a mechanism to access middle element directly c. Binary search algorithm is not efficient when the data elements more than 1500 d. Requirement of sorted array is expensive when a lot of insertion and deletions are needed Question 2 Complete Marked out of 1.00 Train and Train are needed	Started on State	Sunday, 17 November 2024, 10:06 AM Finished
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1000 ● b. 10 ○ c.		
●b.10○c.		
10 ○ c.		
○ c.		

Question 3
Complete Marked out of 1.00 □ Flag question
Question text
What type of search would be most appropriate for finding an element in a list that is frequently updated? Question 3 Answer □ a. Hash search □ b. Linear search □ c. Binary search ● d. Interpolation search
Question 4
Complete Marked out of 1.00 $ \Box^{\mathbb{F}} \text{Flag question} $
Question text
During a binary search, what happens if the target element matches the middle element? Question 4 Answer a. The search continues in the right sublist b. The search ends successfully c. The list is sorted d. The search continues in the left sublist
Question 5
Complete Marked out of 1.00 □ Flag question
Question text
What is the first step in binary search? Question 5 Answer a. Divide the list into two equal parts b. Compare the target element with the middle element in the list c. Compare the target element with the first element in the list Cospare the target element with the first element in the list Sort the list

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 □ a. Binary search □ b. Linear search □ c. Jump search □ d. Hashing
Question 7
Complete Marked out of 1.00 □ Flag question
Question text
If the target element is greater than the middle element in binary search, where does the search continue? Question 7 Answer a. At the beginning of the list b. In the left sublist c. In the middle of the list d. In the right sublist
Question 8
Complete Marked out of 1.00 $\square^{\mathbb{F}}$ Flag question
Question text
In linear search, if the target element is not found in the list, what is the result? Question 8 Answer a. The last element is returned b. The search is considered unsuccessful c. The first element is returned d. An error is raised

Question 9 Complete Marked out of 1.00 \sqcap Flag question **Question text** Which of the following statements about linear search is true? Question 9 Answer a. Linear search can be applied to both sorted and unsorted lists. Linear search is more efficient than binary search on large lists. Linear search divides the list into halves. d. Linear search requires the list to be sorted. **Question 10** Complete Marked out of 1.00 \square Flag question **Question text** What is the advantage of binary search over linear search? -Question 10 Answer a. Binary search works on unsorted lists b. Binary search has a lower time complexity on large, sorted lists \bigcirc C. Binary search does not require dividing the list Binary search can find multiple instances of the target element **Question 11** Complete Marked out of 1.00 \square Flag question **Question text** In linear search, how is the element searched? Question 11 Answer \bigcirc By using a hash function By dividing the list into halves By comparing each element in the list sequentially \circ d. By sorting the list first

Question 12
Complete Marked out of 1.00 □ Flag question
Question text
What is the time complexity of binary search in the worst case?
Question 13
Complete Marked out of 1.00 $\square^{\mathbb{V}}$ Flag question
Question text
Finding the location of a given item in a collection of items is called
Question 13 Answer a.
Mining
●b.
Searching
$igcup_{\mathbf{c}}$
Discovering
○ d.
Finding
Question 14
Complete Marked out of 1.00 $\square^{\mathcal{V}}$ Flag question
Question text
In which situation is linear search more efficient than binary search? —Question 14 Answer — a. When the list is small and unsorted ● b. When the list is large and sorted

c. When the list is small and sorted		
\bigcirc		
d.		
When the list is large and unsorted		

Question 15

Complete Marked out of 1.00 $\square^{\mathbb{P}}$ 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 15 Answer	
\circ	
a.	
n/2	
\circ	
b.	
log n	
log n ●	
C.	
n	
\circ	
d.	
n-1	

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