# **CS23336-Introduction to Python Programming**

Started on Saturday, 9 November 2024, 5:44 PM

State Finished

Completed on Saturday, 9 November 2024, 5:54 PM

**Time taken** 9 mins 38 secs

## **Question 1**

Complete Marked out of 1.00 Flag question

### **Question text**

In binary search, how is the middle element determined?

# **Question 2**

Complete Marked out of 1.00 Flag question

### **Question text**

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

```
Question 2 Answer

a.
O(log n)

b.
O(1)

C.
O(n log n)
```



Complete Marked out of 1.00 Flag question

## **Question text**

Which of the following is a conventional searching technique? -Question 4 Answer -

a. Binary search b. Hashing c. Dynamic search d. Linear search

# **Question 5**

Complete
Marked out of 1.00
Flag question
Question text

In linear search, how is the element searched?		
Question 5 Answer		
a.		
By using a hash function		
b. By comparing each element in the list sequentially		
C.		
By dividing the list into halves		
d. By sorting the list first		
Question 6		
Complete		
Marked out of 1.00		
Flag question		
Question text		
Which of the following is not a limitation of binary search algorithm?		
Question 6 Answer————————————————————————————————————		
a.		
Binary search algorithm is not efficient when the data elements more than 1500		
b.		
Requirement of sorted array is expensive when a lot of insertion and deletions are needed		
c.		
There must be a mechanism to access middle element directly		
○ d.		

# Question 7

Must use a sorted array

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## **Question text**

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

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-Question / Answer————————————————————————————————————
a.
Linear search
b.
Hash search
C.
Sequential search
d.
Binary search

# **Question 8**

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## **Question text**

Which of the following is a type of searching method?

— Question 8 Answer

a.
Bubble search
b.
Merge search
C.
Quick search
d.
Linear search

# **Question 9**

Complete Marked out of 1.00 Flag question

### **Question text**

Which of the following best describes the process of a linear search?

— Question 9 Answer ————————————————————————————————————		
a.		
Dividing the list in half repeatedly		
b.		
Skipping every second element		
с.		
Sorting the list before searching		
d.		
Checking each element sequentially		
Question 10		
Suestion 10		
Complete		
Duestion text		
<b>~</b>		
What type of search would be most appropriate for finding an element in a list that is frequently updated?		
— Question 10 Answer		
d. Checking each element sequentially  Question 10  complete Carked out of 1.00 clag question  question text  That type of search would be most appropriate for finding an element in a list that is frequently updated?		

a.
Interpolation search
b.
Linear search
C.
Binary search
d.
Hash search

# **Question 11**

Complete Marked out of 1.00 Flag question

# Question text

]	In linear search, if the target element is not found in the list, what is the result?	
	Question 11 Answer—	
	a.	
	The first element is returned	
	b.	
	An error is raised	

c. The search is considered unsuccessful
d. The last element is returned
ב זוכ זמא כזכוווכווו וא זכנעוווכע
Question 12
Complete
Marked out of 1.00 Flag question
Question text
Question text
Given an array arr = {45,77,89,90,94,99,100} and key = 99; what are the mid values(corresponding array elements) in the first and second levels of recursion?
Question 12 Answer
a.
89 and 94
b.
89 and 99
c.
90 and 99
d.
90 and 94
Question 13
Complete
Marked out of 1.00
Flag question
Question text
What is the first step in binary search?

−Question 13 Answer−

a.

b.

Sort the list

a.
The list is sorted
b.
The search continues in the right sublist
c.
The search continues in the left sublist
d

The search ends successfully

# **Question 15**

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 15 Answer	
a.	
Hashing	
b.	
Binary search	
C.	
Jump search	
d.	
Linear search	

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