# **CS23336-Introduction to Python Programming**

Started on Saturday, 9 November 2024, 10:25 PM

State Finished

Completed on Saturday, 9 November 2024, 10:31 PM

Time taken 5 mins 29 secs

#### **Question 1**

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 1 Answer—

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

#### **Question 2**

Complete
Marked out of 1.00

Flag question

#### **Question text**

Which of the following is a limitation of binary search?

### **Question 3**

Complete
Marked out of 1.00

Flag question

#### **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?

Ougstion 2 Answer

Cuestion 5 Answer
a.
90 and 94
○ b.
89 and 94
○ c.
89 and 99
<ul><li>●</li><li>d.</li></ul>
90 and 99
Question 4
Complete Marked out of 1.00  Flag question
Question text
In checks the elements of a list, one at a time, without skipping any element.
—Question 4 Answer—  ●
a.
Linear search
O b.
Binary search
○ c.
Both (1) & (3)
$\stackrel{\smile}{d}$ .
Hash search
Question 5
Complete Marked out of 1.00  Flag question
Question text
search takes a sorted/ordered list and divides it in the middle.
Question 5 Answer
a.
Hash
○ b.

Linear			
О с.			
Both (1) & (3)			
Binary			
Question 6			
Complete			

Marked out of 1.00 Flag question

#### **Question text**

In the context of searching, what is a successful search? —Question 6 Answer-

a.
When the list contains duplicate elements
b.
When the element is found in the list
C.
When the list is sorted
d.
When the search algorithm finishes

# **Question 7**

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

# **Question 8**

Complete Marked out of 1.00 Flag question

#### **Question text**

In binary search, what happens if the middle element does not match the target element?

Question 8 Answer  $\bigcirc$ 

a.	
The search stops	
b.	
The search continues in the left or right sublist	
C.	
The list is sorted	
d.	
The search continues from the beginning	
	1
Question 9	

Complete Marked out of 1.00 ☑ Flag question

# **Question text**

In linear search, how is the element searched? -Ouestion 9 Answer-

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

# **Question 10**

Complete Marked out of 1.00 ■Flag question

#### **Question text**

The average case occurs in the linear search algorithm

-Question 10 Answer		
a.		
When the item is not the array at all		
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.		
When the item is somewhere in the middle of the array		

# **Question 11**

Complete Marked out of 1.00

Flag question
Question text
Which of the following is not the required condition for a binary search algorithm?
Question 11 Answer  a.  There should be direct access to the middle element in any sublist
○ b.
There must be a mechanism to delete and/or insert elements in the list
c.
The list must be sorted
$egin{pmatrix} \bigcirc \\ \mathbf{d}. \end{pmatrix}$
Number values should only be present
Number values should only be present
Question 12
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 12 Answer
a. The last element is returned
b. An error is raised
c. The first element is returned
d. The search is considered unsuccessful
Question 13
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 13 Answer  a.  Jump search
b. Binary search

c. Linear search		
$\bigcirc$		
d.		
Hashing		

## **Question 14**

Complete
Marked out of 1.00
Flag question

#### **Question text**

Which of the following scenarios is best suited for applying binary search?

— Ouestion 14 Answer

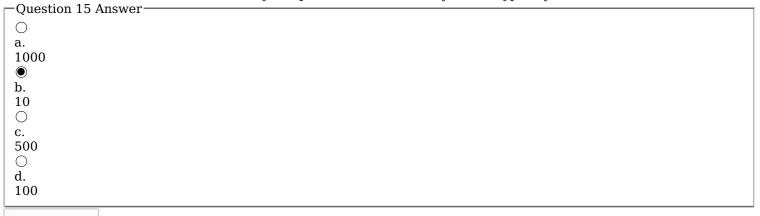
### **Question 15**

Complete
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#### **Question text**

If a list contains 1000 elements, how many comparisons would a binary search typically make in the worst case?



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