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CS23336-Introduction to Python Programming

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Question 1

Complete
Marked out of 1.00
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Question text

In _____ checks the elements of a list, one at a time, without skipping any element.

┌─Question 1 Answer─────────────────────────────────
○
a.

Binary search

○
b.

Linear search

◉
c.

Both (1) & (3)

○
d.

Hash search
└───

Question 2

Complete
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Question text

What type of search would be most appropriate for finding an element in a list that is frequently updated?

┌─Question 2 Answer─────────────────────────────────
○
a.
Linear search
◉
b.
Hash search
○
c.
Interpolation search
○
d.
Binary search
└───

Question 3

Complete
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Question text

Which of the following is a conventional searching technique?

┌─Question 3 Answer───
◉
a.
Linear search
○
b.
Hashing
○
c.
Binary search
○
d.
Dynamic search
└───

Question 4

Complete
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Question text

In which situation is linear search more efficient than binary search?

┌─Question 4 Answer───
○
a.
When the list is large and unsorted
◉
b.
When the list is small and unsorted
○
c.
When the list is small and sorted
○
d.
When the list is large and sorted
└───

Question 5

Complete
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Question text

In binary search, how is the middle element determined?

┌─Question 5 Answer───
○
a.
By comparing each element sequentially
○
b.
By starting from the first element
○
c.
By using a hash function
◉
d.
By dividing the list length by two
└───

Question 6

Complete
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Question text

What is the time complexity of binary search in the worst case?

┌─Question 6 Answer───┐

◉
a.
O(log n)

○
b.
O(1)

○
c.
O(n)

○
d.
O(n log n)

└───┘

Question 7

Complete
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Question text

What is the advantage of binary search over linear search?

┌─Question 7 Answer───┐

◉
a.
Binary search has a lower time complexity on large, sorted lists

○
b.
Binary search can find multiple instances of the target element

○
c.
Binary search does not require dividing the list

○
d.
Binary search works on unsorted lists

└───┘

Question 8

Complete
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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 8 Answer───┐

◉
a.

90 and 99

○
b.

89 and 99

○
c.

90 and 94

○ d.

89 and 94

Question 9

Complete
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Question text

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

┌─ Question 9 Answer ─────────────────────────────────
│ ○ a.
│ When the list is sorted
│ ○ b.
│ When the list contains duplicate elements
│ ◉ c.
│ When the element is found in the list
│ ○ d.
│ When the search algorithm finishes
└───

Question 10

Complete
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Question text

Which of the following statements about linear search is true?

┌─ Question 10 Answer ────────────────────────────────
│ ○ a.
│ Linear search is more efficient than binary search on large lists.
│ ○ b.
│ Linear search divides the list into halves.
│ ◉ c.
│ Linear search can be applied to both sorted and unsorted lists.
│ ○ d.
│ Linear search requires the list to be sorted.
└───

Question 11

Complete
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Question text

What is searching in the context of computer science?

┌─ Question 11 Answer ────────────────────────────────
│ ○ a.
│ Sorting elements in a list
│ ○ b.
│ Inserting elements into a list
└───

◉
c.
Determining whether an element is present in a list
○
d.
Deleting elements from a list

Question 12

Complete
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Question text

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

┌─Question 12 Answer────────────────────────────────
◉
a.
Binary search
○
b.
Sequential search
○
c.
Linear search
○
d.
Hash search
└──

Question 13

Complete
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Question text

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

┌─Question 13 Answer────────────────────────────────
○
a.
In the right sublist
○
b.
In the entire list
◉
c.
In the left sublist
○
d.
At the beginning of the list
└──

Question 14

Complete
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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?

┌─Question 14 Answer────────────────────────────────
○
a.

90 and 100

○
b.

89 and 94

◉
c.

90 and 99

○
d.

94 and 99

Question 15

Complete
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Question text

_____sort is the simplest sorting algorithm that works by repeatedly swapping the adjacent elements in case they are unordered in n-1 passes.

┌─Question 15 Answer─────────────────────────────
◉
a.

Bubble

○
b.

Selection

○
c.

Complexity

○
d.

Insertion

└──

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Quiz navigation

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