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Quiz 2 Questions

Multiple Choice


1.0 point possible (graded, results hidden)

Which data structure is used for recursion?

☐ Array☐ Linked List☐ Stack☐ Queue☒ Searching-sorting

You have used 0 of 1 attempt

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Multiple Choice

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Which type of error will happen if there will be no exit condition for recursion function?

☐ Logical error☐ No error☐ Compile time error☒ Run time error[Submit](#)

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 Your answers have been saved but not graded. Click 'Submit' to grade them.

Checkboxes


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Consider the given pseudo code of a function,

func(x):

 RETURN x+func(x-1)

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[End My Exam](#)0:34:09 ☐ As there is no base case error will occur☐ Will print the output value 21☒ The function has a parameter which takes integer value 6☒ Maximum limit of recursion will be exceeded[Submit](#)

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Checkboxes

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Consider the following pseudo code,

func(x):


IF $x < 5$:

PRINT $x * 2$


func(x + 1)

PRINT $x * 2$

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[End My Exam](#)0:34:09 ☒ 4, 6, 8, 8, 6, 4☐ 2, 3, 4, 4, 3, 2☐ 8, 6, 4, 4, 6, 8☒ The final output is a palindrome sequence[Submit](#)

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Multiple Choice

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Consider the following pseudo code,


func(x):

IF $x > 0$:

$x = x - 1$

func(x)

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What will be the output of the given code?

☐ As there is no base case error will occur☐ 3, 2, 1, 0☐ 0, 1, 2, 3☐ 1, 2, 3, 4[Submit](#)

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Multiple Choice

1.0 point possible (graded, results hidden)

Memoization technique is one of the popular techniques that improve the performance of the recursive algorithms. When applied to a recursive problem how does it affect overall performance?

☐ Time complexity decreases and the space complexity increases☐ Time complexity decreases and the space complexity decreases☐ Time complexity increases and the space complexity decreases

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Multiple Choice

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For which of the following scenarios will both binary search and linear search in an array always take the same amount of time?

- ☐ If the searching element is not present
- ☐ If the length of the array is 1.
- ☐ If the searching element is at the middle index
- ☐ If the searching element is at the 0th index

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Multiple Choice

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What does a binary search do?

- ☐ Sorts an array or a list
- ☐ Converts all the numbers to binary

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Multiple Choice

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Which of the following characteristics are false in case of insertion sort?

☐ a) Non-Stable and dependable☐ b) Stable and in-place☐ c) Adaptive and non-dependable☐ d) Non-Adaptive and out-place☐ e) Both a and b☐ f) Both b and c☐ g) Both a and d[Submit](#)

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Multiple Choice

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