X SSSSSSS
End My Exam 0:19:25 %
Course > Quiz 3 > Quiz 3 Questions > Questions
•
<
>
Questions
Checkboxes
1.0 point possible (graded, results hidden)
Which statement/statements is/are right?
A recursive solution depends on the larger instances of different problems
A recursive solution depends on the larger instances of the same problem
A recursive solution depends on the smaller instances of the same problem
A recursive solution depends on the smaller instances of the different problems
None of the above
Submit You have used 0 of 1 attempt

in the exam. To receive credit for problems, you must select "Submit" for each problem before you select "End My Exam". Show Less				
End My Exam 0:19:25 %				
lteration is always worse than recursion.				
Recursion uses more memory than an iterative approach.				
Recursion uses less memory than an iterative approach.				
Olterative function is always easier to write than recursion.				
Submit You have used 0 of 1 attempt				

Multiple Choice

1.5 points possible (graded, results hidden)

End My Exam

0:19:25

IF left == right:

RETURN 1

ELSE:

RETURN func(left + 1, right) + func(left, right - 1)

//Tester val = func(2, 5) PRINT val

How many times will the recursive function be called if the above given code is executed?

<u>15</u>

<u>14</u>

9

8

7

Submit

You have used 0 of 1 attempt

You are taking "Quiz 3 Questions" as a timed exam. The timer on the right shows the time remainin
in the exam. To receive credit for problems, you must select "Submit" for each problem before you
select "End My Exam". Show Less

End My Exam

0:19:25



func(x):

RETURN x+func(x-1)

//Tester

PRINT func(6)

What will happen if the above given code gets executed?

✓ 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

You have used 0 of 1 attempt

Checkboxes

1.5 points possible (graded, results hidden)

3 = =	eive credit for p	as a timed exam. The timer on the right shows the time remaining roblems, you must select "Submit" for each problem before you
End My Exam	0:19:25	
IE v z Ev		

1 + X < 5

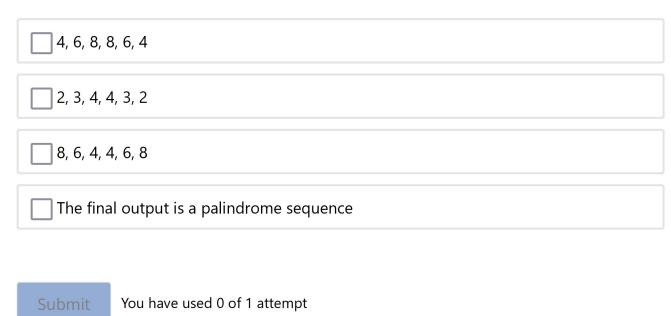
PRINT x * 2

func(x + 1)

PRINT x * 2

//Tester func(2)

What is/are the possible output/s of the given code?



Multiple Choice

1.5 points possible (graded, results hidden)

0:19:25 End My Exam { IF x == 1 OR x == 3PRINT "base case!" **RETURN** PRINT x func(x-1)} Method main() { func(6) } 654321base case! 65432base case! 654321! 654base case! 6543211hase casel

End My Exam

0:19:25



Multiple Choice

1.0 point possible (graded, results hidden)

Consider the Fibonacci problem (fib) has been implemented using memoization. If fib(7) is called, how many recursive calculations of overlapping subproblems of fib(3) can be reduced?

<u></u> 4	
<u> </u>	
3	
<u>6</u>	
<u>2</u>	
Submit	You have used 0 of 1 attempt

Multiple Choice

1.0 point possible (graded, results hidden)

ed

End My Exam 0:19:25

performance?

	O time complexity decreases and the space complexity increases
Cor	decreases
	Time complexity increases and the space complexity decreases
	Time complexity increases and the space complexity increases
	Submit You have used 0 of 1 attempt
	∢ Previous
	Next >