End My Exam 0:19:25

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

You are taking "Quiz 3 Questions" as a timed exam. The timer on the right shows the time remaining 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

- Iteration is always worse than recursion.
- Recursion uses more memory than an iterative approach.
- Recursion uses less memory than an iterative approach.
- Iterative 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)

You are taking "Quiz 3 Questions" as a timed exam. The timer on the right shows the time remaining 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

```
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?

- 15
- 14
- 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 remaining 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?

- [x] 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)

You are taking "Quiz 3 Questions" as a timed exam. The timer on the right shows the time remaining 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

```
IF 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?

- [ ] 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 You have used 0 of 1 attempt

Multiple Choice

1.5 points possible (graded, results hidden)

You are taking "Quiz 3 Questions" as a timed exam. The timer on the right shows the time remaining 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

```
{
    IF x == 1 OR x == 3

      PRINT “base case!”

      RETURN

    PRINT x

    func(x-1)

}

Method main()
{
    func(6)

}
```

- 654321base case!
- 65432base case!
- 654321!
- 654base case!
- 654321base case!

You are taking "Quiz 3 Questions" as a timed exam. The timer on the right shows the time remaining 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

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?

- 4
- 5
- 3
- 6
- 2

Submit You have used 0 of 1 attempt

Multiple Choice

1.0 point possible (graded, results hidden)

ed

You are taking "Quiz 3 Questions" as a timed exam. The timer on the right shows the time remaining 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

performance?

- Time complexity decreases and the space complexity increases
- 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