

# Weekly Lecture Quiz 4

1. Your Name:

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2. Your RIT Student ID (9 digit number)

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3. Which of the following statements about recursion are True?

*Check all that apply.*

- ☐ All tail recursive functions are also general recursive functions
- ☐ All general recursive functions are also tail recursive functions
- ☐ General recursive functions can be easily translated into a while loop
- ☐ Tail recursive functions can be easily translated into a while loop

4. Converting a recursive function which returns a collected result to tail recursion requires adding a what?

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5. Documenting the values for each iteration of a recursive function is called a:

*Mark only one oval.*

- ☐ Timeline
- ☐ Substitution Trace
- ☐ Stack Trace
- ☐ Recursive Trace

6. Documenting the values for each iteration of a while loop is called a:

*Mark only one oval.*

- ☐ Stack Trace
- ☐ Substitution Trace
- ☐ Timeline
- ☐ Loop Trace

7. In a Tail Recursive function the very last call must be the recursive call

*Mark only one oval.*

- ☐ True
- ☐ False