

## 12.08 Assignment Instructions

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**Instructions:** The premise of this exam is to synthesize your knowledge and understanding of recursion. Your synthesis may be in the form of a word processing document, a presentation, a webpage, etc., but it should be quality work. There are three basic requirements:

- Explain the principles of divide and conquer and recursion in a personally meaningful way (i.e., don't just repeat facts). Relate the explanation to a real-world example.
- Illustrate your presentation with some form of art, graphics, audio, music, animation, video, etc.
- Provide one example of an original recursive program or problem (e.g., Piecewise function). Document the solution to the program with the S-S-S Strategy. Use the module examples as a guide.

Before you undertake your Challenge Exam Project, outline your concept. One way to approach constructing this project is to pretend you have been asked to teach someone else about recursion. What would you share with them?

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