
CS 350 Programming Language Design Assignment (5)

Objectives

- Design and implement subprograms.
- Understand subprogram features like overloading and generics.

Description

Answer the following questions about subprograms in **Ruby**. Whenever possible, support your answer with at least one code example.

- (20 points)** What is the syntax for declaring parameters with default values?
How the default values is used when the function is called?
- (20 points)** How functions can be passed as arguments?
- (20 points)** Define a simple recursive function and trace its call stack?
- (20 points)** Is it possible to pass a variable number of parameters to a method?
How?
- (10 points)** Can subprograms be overloaded? *Why?*
- (10 points)** is there any support for generic subprograms? *Why?*

Hint:

- To run your code you can use an online Ruby IDE. You don't have to install any programs to your computer. You can try this:
<https://repl.it/languages/ruby>
- Submit a pdf file showing your answers to the questions as well as screen shots for the running code. *Please follow the same numbering!*