Homework 07, ISTA-220

Chapter 07, C# Step by Step July 28, 2018

1 Homework

1.1 Readings

Read chapter 7, pages 153 - 174 in the C # Step by Step book.

1.2 Discussion Questions

Answer the discussion questions in writing.

- 1. What is a class? According to the book, what does a class "arrange?"
- 2. What are the two purposes of encapsulation?
- 3. How do you instantiate an instance of a class? How do you access that instance?
- 4. What is the default access of the fields and methods of a class? How do you change the default?
- 5. What is the syntax for writing a constructor?
- 6. What is the difference between class fields and methods, and instance fields ad methods? How do you create class fields and methods?
- 7. How do you bring a static class in scope? Why would you want to bring a static class in scope?
- 8. Can you think of a good reason to create an anonymous class? What is it?
- 9. What is polymorphism as this term is used in computer science? This is not in the book.
- 10. What is message passing as this term is used in computer science? This is not in the book.
- 11. What was the first object-oriented programming language?
- 12. Consider this quote by Alexander Stepanov:

I find OOP technically unsound. It attempts to decompose the world in terms of interfaces that vary on a single type. To deal with the real problems you need multisorted algebras — families of interfaces that span multiple types. I find OOP philosophically unsound. It claims that everything is an object. Even if it is true it is not very interesting — saying that everything is an object is saying nothing at all.

Who is Alexander Stephanov? What do you think about this quote?