Homework 14, ISTA-220

Chapter 14, C# Step by Step July 28, 2018

1 Homework

1.1 Readings

Read chapter 14, pages 305 - 328 in the $C \# Step \ by \ Step \ book$.

1.2 Discussion Questions

Answer the discussion questions in writing.

- 1. What is the difference between a managed resource and an unmanaged resource?
- 2. When is memory for an object (reference type) allocated? When is the memory deallocated?
- 3. What is a destructor?
- 4. What is the difference in syntax between a constructor and a destructor?
- 5. Give some examples of scarce resources. Why would you want to manage scarce resources?
- 6. What is exception-safe disposal?
- 7. How do you think that the *using* statement works for resource management? Give an informal, English language, explanation of how it works.
- 8. What ill effects could result from attempting to dispose of a resource more than once?
- 9. We will look at threads later in the term. For now, what is your understanding of how threads interact with resource management? A good guess is a siufficient answer to this question.
- 10. Why does the book recommend not attempting to force the garbage collector? Are their any exceptions to this recommendation?