

Homework 10, ISTA-220

Chapter 10, C# Step by Step

July 28, 2018

1 Homework

1.1 Readings

Read chapter 10, pages 221 – 242 in the *C# Step by Step* book.

1.2 Discussion Questions

Answer the discussion questions in writing.

1. What does an array look like in memory?
2. Where is memory allocated to hold an array, on the stack or on the heap?
3. Where is memory allocated to hold an array reference, on the stack or on the heap?
4. Can an array hold values of different types? This is a trick question, the answer is, “It depends.”
5. Describe the syntax of the condition or a *foreach* loop.
6. How do you make a deep copy of a array?
7. What is the difference between a multi-dimensional array and an array of arrays?
8. How do you “flatten” a multidimensional array? In other words, take something that looks like a matrix $\begin{bmatrix} 1 & 2 & 3 \\ 4 & 5 & 6 \\ 7 & 8 & 9 \end{bmatrix}$ and turn it into an array `[1, 2, 3, 4, 5, 6, 7, 8, 9]`?