Week 3: Discussion

By: Clinton E. Kline  
10-26-2021

Instructor: Quentin Miller

CIAT – ASD102

Abstract

We are now used to working with the key data types of most programming languages including C++: int, bool, char, and double. In Chapter 7, we learn that C++ also provides us the ability to define our own data types known as enumerators.

On page 468-469, we learn that to define an enumeration type, you need the following items:

A name for the data type

A set of values for the data type

A set of operations on the values

For your initial post, provide us with two reasons why you would want to use an enumeration data type and define a new enumeration type for the program you wrote pseudo code for in Week 2.

**Keywords**: C++, Programming, pseudo-code  
  
Week 3: Discussion

One reason I would want to use an enumeration data type is if I were writing a program to create a timeline for a specific topic, you could create an enumeration type that is used to define things that happen during a certain year.

enum year {2000, 2001, 2002, 2003, 2004, 2005};

Another could be if you wanted data to represent the inventory of a grocery store.

enum department {bakery, dry goods, deli, frozen, produce, beverages, dessert};

Yes, dessert gets its own isle in my store.

The data type I would create to help with my ski binding app last week would be . I would use those types to store each column of DIN values from the DIN chart, and then the rest of the rider details would be entered as variables of that data type to determine the DIN value appropriate for them.

enum bootSoleLength {lt250, 251, 271, 291, 311, gt331};

I would define each type by the smallest possible length from each range of sole lengths for abbreviation purposes.