

- 1) Create a class named ***Aggregator***.
 - a) The ***Aggregator*** class has a **protected read-only** data member named ***Numbers***, consisting of an array of integers.
 - b) A **protected** constructor that accepts a length initializes that array of integers to the list, but if the given array is **null**, throw an ***ArrayNullArgumentException***.
 - c) A **public virtual method** named ***GetValue*** with a parameter **int n**, which throws a ***NotImplementedException()***.
 - d) The ***To String*** override method will print all the numbers from the list, separated by a space.
- 2) Create a class named ***Average*** that extends the ***Aggregator*** class.
 - a) A **public** constructor that calls the **base** constructor.
 - b) The ***GetValue*** simply returns the **integer-average** of the **first n**th integers in the ***Numbers*** array. If **n** is **negative**, throw an ***ArgumentOutOfRangeException***. If **n** is **zero**, throw a ***DivideByZeroException***.
- 3) Create another class named ***Count*** that extends the ***Aggregator*** class.
 - a) A **public** constructor that calls the **base** constructor.
 - b) The ***GetValue*** simply returns the count of integers that match the value of **n** in the ***Numbers*** array.
- 4) Test your classes.