Exercises

- Implement an extension method Substring(int index, int length) for the class StringBuilder that returns new StringBuilder and has the same functionality as Substring in the class String.
- Implement a set of extension methods for IEnumerable<T> that implement the following group functions: sum, product, min, max, average.
- 3. Write a method that from a given array of students finds all students whose first name is before its last name alphabetically. Use LINQ query operators.
- 4. Write a LINQ query that finds the first name and last name of all students with age between 18 and 24.

Exercises (2)

- 5. Using the extension methods OrderBy() and ThenBy() with lambda expressions sort the students by first name and last name in descending order. Rewrite the same with LINQ.
- 6. Write a program that prints from given array of integers all numbers that are divisible by 7 and 3. Use the built-in extension methods and lambda expressions. Rewrite the same with LINQ.
- 7. Using delegates write a class Timer that has can execute certain method at each t seconds.
- 8. * Read in MSDN about the keyword event in C# and how to publish events. Re-implement the above using .NET events and following the best practices.