Language Map for C#

Variable Declaration	C# is a strongly typed language
Is this language strongly typed or dynamically typed? Provide an example of how variables are declared in this language.	String name = "Michael";
Data Types List all of the data types (and ranges) supported by this language.	Int, double, char, string, bool
Selection Structures Provide examples of all selection structures supported by this language (if, if else, etc.)	If, if else, and switch statements
Repetition Structures Provide examples of all repetition structures supported by this language (loops, etc.)	While, for, and dowhile
Arrays If this language supports arrays, provide an example of creating an array with a primitive data type (e.g. float, int, etc.)	Int [] array = new int[] {15, 30, 45};
Data Structures If this language provides a standard set of data structures, provide a list of the data structures and their Big-Oh complexity.	Array{Access – O(1), Search – O(N), Insertion – O(N), and Deletion O(N)} Stack{Access – O(N), Search – O(N), Insertion – O(1), and Deletion – O(1)} Queue{Access – O(N), Search – O(N), Insertion – O(1), and Deletion – O(1)} Hashtable{Access – O(N), Search O(N), Insertion – O(N), and Deletion – O(N)} Linked List{Access – O(N), Search O(N), Insertion – O(1), and Deletion – O(1)}
Objects If this language support object-orientation, provide an example of how to create a simple object with a default constructor.	Public class Schools { Public Schools (){ Console.WriteLine("Bellarmine");} } Schools school 1 = new Schools ();
Runtime Environment What runtime environment does this language compile to? For example, Java compiles to the Java Virtual Machine. Do other languages also compile to this runtime?	Common Language Runtime .NET languages use CLR
Libraries/Frameworks	Dapper, AutoMapper, and Serilog

What are the popular libraries or frameworks used by programmers for this language? List at least three (3).	
Domains	Accenture – use it for applications at labs
What industries or domains use this programming	Microsoft – web applications and game development
language? Provide specific examples of companies	Aristocrat – game development
that use this language and what they use it for.	Wintrust Financial Corporation – front end web development