**Topic 2: Comparing Strings**

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**Reading**

[Reading](https://dmacc.blackboard.com/webapps/blackboard/content/listContent.jsp?course_id=_102593_1&content_id=_7286909_1)

String and String compare

* + Microsoft:docs.microsoft.com
    - [String class](https://docs.microsoft.com/en-us/dotnet/api/system.string?view=netcore-3.1)
    - [String.Compare Method](https://docs.microsoft.com/en-us/dotnet/api/system.string.compare?view=netcore-3.1)
  + GeeksForGeeks: geeksforgeeks.com
    - [StringComparer.Compare](https://www.geeksforgeeks.org/c-sharp-stringcomparer-compare-method/)
  + TutorialsPoint: tutorialspoint.com
    - [Compare two strings](https://www.tutorialspoint.com/Compare-two-strings-lexicographically-in-Chash)
  + W3Schools: w3schools.com
    - [Strings](https://www.w3schools.com/cs/cs_strings.asp)

**C# strings will ruin you for other languages...**

[C# strings will ruin you for other languages...](https://dmacc.blackboard.com/webapps/blackboard/content/listContent.jsp?course_id=_102593_1&content_id=_7286909_1)

because you can use some relational operators to compare strings.

string name1 = "Mohammed";

string name2 = "Ismael";

if (name1 == name2)

{

Console.WriteLine("The same.");

}

else

{

Console.WriteLine("NOT the same.");

}

if (month != "October")

{

Console.WriteLine("The month is not October.");

}

**Sanity is restored that some operators do not work**

[Sanity is restored that some operators do not work](https://dmacc.blackboard.com/webapps/blackboard/content/listContent.jsp?course_id=_102593_1&content_id=_7286909_1)

You cannot use greater-than **>,** greater-than-or-equal-to **>=,** less-than **<,**less-than-or-equal-to **<=** on strings.   
You must use

String.Compare(string1, string2);

In the general format, **string1** and **string2** are the strings that are being compared. The method returns an integer value indicating the result of the comparison. The integer value will be one of the following:

* + Greater than zero if **string1** is greater than **string2**.
  + Zero if **string1** is equal to **string2**.
  + Less than zero if **string1** is less than **string2.**