You will practice using Properties and iterating a list.

The Medal Class

Due: Demonstration due at the end of the class

Code the Pet class below:
This class comprise of five properties, a constructor and a `ToString()` method. All the properties are public readonly.

Medal Class
Properties + «property setter absent» Name : string + «property setter absent» TheEvent : string + «property setter absent» Color : string + «property setter absent» Year : int + «property setter absent» IsRecord : bool
Methods + «constructor» Medal(name : string, theEvent : string, color : string, year : int, isRecord : bool) + ToString() : string

Description of class members

Properties:
All the properties have public getter and the setter is absent making them all readonly properties

Name – this is a string representing the holder of this object. The getter is public and the setter is absent.

TheEvent – this is a string representing the event of this object. (Event is a reserved word in C#). The getter is public and the setter is absent.

Color – this is a string representing the color of this object (Of course the only colors should be `Gold`, `Silver` and `Bronze`, but the only this can be achieved to is by using Enums which will be covered in the next class). The getter is public and the setter is absent.

"

If the event is not a record event then the "{R}" should not be present in the output. The `ToString()` method is the best place to implement this feature.

Test Harness
Insert the following code statements in the **`Main()`** method of your Program.cs file:

```
//create a medal object
Medal m1 = new Medal("Horace Gwynne", "Boxing", "Gold", 2012, true);
//print the object
Console.WriteLine(m1);
//print only the name of the medal holder
Console.WriteLine(m1.Name);

//create another object
Medal m2 = new Medal("Michael Phelps", "Swimming", "Gold", 2012, false);
//print the updated m2
Console.WriteLine(m2);
```



```
                                                    , "Bronze", 2012,
false));
medals.Add(new Medal("Brent Hayden", "Swimming", "Bronze", 2012, false));

//prints a numbered list of 16 medals.
Console.WriteLine("\n\nAll 16 medals");

//prints a numbered list of 16 names
Console.WriteLine("\n\nAll 16 names");

//prints a numbered list of 9 gold medals
Console.WriteLine("\n\nAll 9 gold medals");

//prints a numbered list of 9 medals in 2012
Console.WriteLine("\n\nAll 9 medals");

//prints a numbered list of 4 gold medals in 2012
Console.WriteLine("\n\nAll 4 gold medals");

//prints a numbered list of 3 world record medals
Console.WriteLine("\n\nAll 3 records");

 //saving all the medal to file Medals.txt
Console.WriteLine("\n\nSaving to file");
```