Assignment 1

Background:

You are creating application that is going to track the swim clubs, their swimmers, swim meets and results.

References: Please refer to "General Assignment Requirements" document posted on eCentennial.

Part 1:

Create the following classes:
1. Club

       Holds the following information:
   a. club number – club's registration number
   b. name –the name of the club
   c. address – address of the club (use structs)
   d. telephone number – 10-digit phone number
2. Registrant

       Holds the following information:
   a. registration number – identification number for a registrant
   b. name – a registrant's name
   c. date of birth
   d. address – address of the registrant (use structs)
   e. telephone number – 10-digit phone number
3. Swim meet

       Holds the following information:
   a. Start date – start date of the meet
   b. End date – end date of the meet
   c. Name of the meet – represent a name of the meet
   d. Course – pool type (SCM, SCY, LCM) (use enum)
4. Event

       Holds the following information:
   a. Distance – distance of a swim (50, 100, 200, 400, 800, 1500)
   b. Stroke – code for the stroke (butterfly, backstroke, breaststroke, freestyle, individual medley) (use enum)
5. Swim

       Holds the following information:
   a. Time swam – final time of a swim (example: 1:05.52)
   b. Heat – number of the heat
   c. Lane – number of the lane

Implement all 5 classes and provide the following:
1. Appropriate fields
2. Appropriate properties for the fields
3. Appropriate constructors (a minimum of 1 in addition to the default constructor)
4. Method `GetInfo()` that returns a string with the information contained within the fields of an instance
5. A registration number for swimmers must be unique
6. A registration number for clubs must be unique
7. You can add any additional methods that may be needed.
8. In the `main()` method, test that all the class members work correctly. User input is not needed - use the hard coded values.

Submission: Submit the solution to Assignment1 drop box by drop box deadline.