AP - Assignment 6
Create a C# program to manage a list of patients with the following description:

Sr No.	Description
1	Class <b>Patient</b> presents a patient which has private fields <b>id</b> , <b>name</b> , <b>gender</b> , <b>yob</b> , <b>contact</b> .
	- Create the properties for each private field so that:
	o pID: has format Pxxxxx , x: digits
	<ul> <li>pName at least 2 characters but not excess 30.</li> </ul>
	o pGender just accept male or female
	o pYOB (write only): from 1900 to now
	o pContact doesn't accept an empty string
	o pAge (read only): return the patient's age
	- Constructors
	- Methods:
	- void Accept()
	- String ToString()
	- void PrintInfo()
2	Class Clinic manages a list of patient, has a collection SortedList <string,patient> named pList to store</string,patient>
_	Patient objects.
	Delegate : void DValid(String msg)
	Event: EventValid
	Methods:
	<ul> <li>void AddNewPatient(): need checking the validity of ID (must be unique) – if ID has existed,</li> <li>raise the event EventValid.</li> </ul>
	- IEnumerator <patient> GetEnumerator() return list of patients.</patient>
	- Patient Search(String patientCode) return a Patient object whose PID is patientCode, or return
	null if not found.
	<ul> <li>void Remove ( string patientCode) remove the patient which PID is patientCode from the list.</li> </ul>
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3	Finally create the Main class which contains main method.
	The main method will help user manipulate on Patient list through a menu as following:
	1- Add new Patient
	2- Print all Patients
	3- Search by ID
	4- Search by Name
	5- Remove a patient by ID
	6- Exit