CPP 程式設計題		
命題者:LLA		
題目名稱(中文/英文):Football Game System		
主要測試觀念:Class, Function		
Basics	Functions	
 C++ BASICS FLOW OF CONTROL FUNCTION BASICS PARAMETERS AND OVERLOADING ARRAYS STRUCTURES AND CLASSES CONSTRUCTORS AND OTHER TOOLS OPERATOR OVERLOADING, FRIENDS, AND REFERENCES STRINGS POINTERS AND DYNAMIC ARRAYS 	☐ SEPARATE COMPILATION AND NAMESPACES ☐ STREAMS AND FILE I/O ☐ RECURSION ☐ INHERITANCE ☐ POLYMORPHISM AND VIRTUAL FUNCTIONS ☐ TEMPLATES ☐ LINKED DATA STRUCTURES ☐ EXCEPTION HANDLING ☐ STANDARD TEMPLATE LIBRARY ☐ PATTERNS AND UML	
題目說明:	FATTERNS AND UML	
Please write a football video game system. The sy player information as input, and the system should read it in and analyze each line to c football player has PlayerID and two abilities: "Speed" and "Power". The system can create the format of a string. The following describes the a. The player information is a string composed of form. Example: If the string is "05Chan5050" means Plab. "Name" is a string of connected characters, who and "Power" are two digits to specify a value from 10 to 99.	reate all corresponding players where each reate a football player with PlayerInformation in e details. PlayerID, Name, Speed and Power in serialized ayerID=5, Name=Chan, Speed=50, Power=50.	
c. The PlayerID is within the value from 01,02,03 d. The shooting rate is defined by (Speed*0.5+Pov 100%=		
e. The ComparePlayer(string Player1, string Player rate and then prints the better one, such as "Player1 is the better player". If two players have the same Shooting rate"		
f. The Listplayer() function can list the all player by g. If ComparePlayer(string Player1, string Player2 file, output "The player name Player1 does not exist" or "The player name Player1 and Ph. *If PlayerID in the SettingPlayer.txt repeats, the i. *The Name in the SettingPlayer.txt would not be	2) calls the player who does not exist in the Player2 do not exist" e character and the abilities should be updated.	

Please define a class of FootballPlayer with the following functions: public:

PlayerID ID has no character"

void SetFileName(string fileName); // Read the file would not output anything void PlayerInformation(int ID); // Output PlayerID, Name and Shooting rate void ComparePlayer(string Player1, string Player2); //Output who is the better player or they have the same Shooting rate void ListPlayer(); // List all the player ID, player name and Shooting rate

j. *If a PlayerID is not in the SettingPlayer.txt, PlayerInformation(ID) would print "The

Note:

Please do not change the function in main(). To test your program, we would use another file "SettingPlayer.txt". So make sure all the

functions above can be executed and output correctly.

There is no space in the file "SettingPlayer.txt".

Each function output in main() function correspond to all Sample output.

輸入說明:

No input. However, we will replace your main.cpp with ours to test your program.

輸出說明:

All output messages are handled in main().

IO 範例:

Sample Input	Sample Output
main.cpp	The PlayerID 3 is Bruce and Shooting rate:70%
	The PlayerID 4 is Zod and Shooting rate:100%
	The PlayerID 5 is Diana and Shooting rate:93%
	The PlayerID 6 has no character
	The two players have the same Shooting rate
	Clark is the better player
	The player name Fury and Stephen do not exist
	The player name Barry does not exist
	The player name Tony does not exist
	The player name Stephen and Steve do not exist
	The player name Vision and Steve do not exist
	All Player:
	ID:01 Name: Arthur Shooting rate:16.4%
	ID:03 Name: Bruce Shooting rate:70%
	ID:04 Name: Zod Shooting rate:100%
	ID:05 Name: Diana Shooting rate:93%
	ID:08 Name: Clark Shooting rate:100%

	1D.03 Name. Bruce Shooting rate. 70%
	ID:04 Name: Zod Shooting rate:100%
	ID:05 Name: Diana Shooting rate:93%
	ID:08 Name: Clark Shooting rate:100%
附屬資料:	
☑解答程式:	
☑測試資料:	
□易,僅需用到基礎程式設	計語法與結構
■中,需用到多項程式設計	語法與結構
□難,需用到多項程式結構	或較為複雜之資料型態或結構
解題時間:40 分鐘	
其他註記:	