This assignment is designed for the student to demonstrate their acquired programming skills using the Java language. A quiz will be given on the due date for this assignment.

Create a class called *Golfer* that includes instance data, methods and constructors for a single *Golfer* as described here,

Private Instance Data: name, holes[]

One Constructor: Only one constructor that initializes the instance fields using the input arguments. You must make a deep copy.

4 Instance Methods:

- 1. (String) toString() returns the instance field data for the player on one formatted line. The output format is name followed by 9 scores.
- 2. (String) getName() returns the name of the player.
- 3. (int) totalStrokes() returns the total strokes for holes played by the Golfer.
- 4. (int []) getHoles(), returns an int-array containing the scores for all holes of one player.

Write a second class and give it a name other than *Golfer*. This second class will contain only one method: the *main* static method.

The main method will drive your program by doing the following:

- Create an array to hold all the individual golfers and par scores (type is Golfer[]).
- Prompt the user for a data file containing the Par scores and the player names and score. The format of the input file should look like this:

```
Par, 3, 4, 4, 3, 4, 3, 5, 3, 4

George, 3, 3, 4, 3, 4, 2, 3, 3, 4

Paul, 4, 5, 4, 3, 6, 3, 4, 3, 5

Ringo, 3, 3, 4, 3, 4, 2, 4, 3, 4

John, 4, 4, 4, 3, 4, 2, 5, 3, 4
```

Your program should read the file contents and store the information in your array of *Golfers*. Be sure to include a competent exception handler.

• Display a formatted table like this:

Name	H-1	H-2	н-3	H-4	н-5	н-6	н-7	H-8	н-9	Total	+-Par
Par	x	х	x	x	x	x	х	х	x	xx	xx
George	x	x	x	x	x	x	x	x	x	xx	xx
Paul	x	x	x	x	x	x	x	x	x	хx	хx
Ringo	x	x	x	x	x	x	x	x	x	хx	хx
John	x	x	x	x	x	x	x	x	x	xx	xx

The low score is: The winner is:

The winner is the player with the lowest total. Par is a *signed* integer.

About the columns in the table:

- H-1, H-2, ..., refers to the score for a given hole. For example H-3 is the score for the third hole.
- The "Total" column is the sum of a player's nine scores.
- +-Par is the difference between the player's score and the "Par". For example, if a player has a total score of 37 and the Par total is 34, then the player would have a +-Par entry of +3. The entry in this column should be signed. The format modifier field is the plus symbol as in

```
String str = String.format( "%+5d", value );
```

Do not use any spaces or tabs to format your output.