APCS :: Basketball Stats Program part I

You should now have enough tools in your tool belt to get some work done on the Stats program.

Before you begin make sure your program has the following classes:

- **Player** – maintains individual player stats
- **Team** – maintains a list of Players and a score
- **Game** – maintains references to two teams, designated as “home” and “Visitor” respectively.
- **Main** – runs the UI and parses commands.

Here is a typical box-score for one team showing stats for a game. We will use this as our guide as we proceed for this part of the assignment we will only concern ourselves with fga, fgm and pts.

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<th>PLAYER</th>
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<th>3GM-A</th>
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<th>DEF</th>
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Please implement the following commands and test them to make sure they work. You may hard-code the building of teams in main in order to test.

**Command:** fga

**Description:**

fga H[V num pts

Records a field goal attempt for the player indicated.

“H” or “V” indicates Home or Visitor team

num indicates player number – MUST exist on roster of team

pts indicates points scored – MUST be 0 or 2
Print an error message to the screen (don’t throw an exception) if:
   The command is not understood for some reason.
   The player with num does not exist on the team given

Example:
fga H 21 2

Records a field goal attempt for player with number 21 on the “Home” team – she scored 2 points so the field goal was made. You may want to print a message indicating a successful record was made.

Command: **print** score|team [H|A]

Description:
print score (This is the first option of many things that we will eventually print)

Prints the current game score to the console. The game score should be an accumulation of points for each team as recorded from calls to fga.

EXAMPLE:
$> print score
Home: 30
Visitor: 23
$>

NOTE: You may print the actual team names instead of “Home” and “Visitor” if you like.

Description: print team H|A
This call to print will print a summary of player statistics for the team indicated.

EXAMPLE:
$> print team H
Team: foobars
11 Smith 3-4 6
12 McCormick 5-8 10
14 Davis 1-5 2
$>

The above example shows a space-delimited record for each player with the following fields:
num name fgm-fga pts
Recommendation:
Make each line of stats be the result of the toString method from the Player class. This will make your life much easier in the future.

Print an error message to the screen if:
   The argument given to print is not understood or is incomplete.