Bonus Assignment - Tennis Game Kata

PV260 Software Quality

May 4, 2015

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Tennis Game - Scoring

- Each player starts with 0 points
- \blacktriangleright The scoring then goes like this $0 \rightarrow 15 \rightarrow 30 \rightarrow 40$
- If A has 40 and scores, and B doesn't have 40, A wins
- If both have 40 and A scores, A has Advantage
- If A has Advantage and scores, they win
- ▶ If A has Advantage, B has 40 and scores, both are at 40 again

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- Scores are written in the format 'A B', e.g. '30 15'
- When A has Advantage, the score is written as 'A 40'
- If scores are equal, e.g. both have 30, it is called '30 all'
- If both players have 40 points, it is called 'deuce'

Tennis Game - Controls Specification

- The game is controlled from console
- User enters text commands, for each command there must be some response
 - description of new state
 - unknown command notification
 - list of available commands
 - ▶ ...
- Commands are NOT case sensitive
- The state descriptions can be wrapped in arbitrary text to decorate the output.
 - ► E.g. if the score is 15 30 the output can be 'Current score is 15 30.' or 'The score is 15 30 now' etc.

Tennis Game - Controls Specification

Following commands exist:

'Exit' :	Quits the program
'New Game' :	Can be called at any time,
	scoring is reset to 0
'Player X Scored' :	Where 'X' is either A or B,
	increments score of player X
'Show Score' :	Displays text containing the score
	which is in the format specified above.
	If there is a winner already,
	output is same as that of 'Show Winner'
'Show Winner' :	Displays name of the winner ('A' or 'B')
	or text containing 'no one'
	if there is no winner yet