Le Kata est très important pour nous et doit donc être réalisé comme un projet professionnel. Le code doit être « pushé » dans Github afin de faire une revue.

Dans ce kata, vous vous focaliserez sur le score d'un set de Tennis.

Prérequis:

Ecrire un programme qui prend en compte ces éléments pour le tableau des scores entre deux joueurs de Tennis.

Les joueurs doivent être capables de marquer des points.

Le set doit être fini avec un gagnant.

Après qu'une partie soit gagnée, le joueur gagnant doit être déterminé.

On doit pouvoir suivre le score de chaque joueur à tout moment durant la partie.

SPRINT1: manage a tennis GAME within a set of a tennis match

User Story 1:

As a tennis referee

I want to manage the score of a game of a set of a tennis match between 2 players with simple Game rules In order to display the current Game score of each player

Rules details:

- The game starts with a score of 0 point for each player
- Each time a player win a point, the Game score changes as follow:
 0 -> 15 -> 30 -> 40-> Win game

Example:

GAME SCORE

	Start the game	Player 1 wins 1 point	Player 1 wins 1 point	Player 2 wins 1 point	Player 1 wins 1 point	Player 2 wins 1 point	Player 2 wins 1 point	Player 2 wins 1 point
Player 1	0	15	30	30	40	40	40	0
Player 2	0	0	0	15	15	30	40	0
								Player 2 win the game

User Story 2:

As a tennis referee

I want to manage the specific of the rule DEUCE at the end of a Game In order to display the current Game score of each player

Rules details:

- · If the 2 players reach the score 40, the DEUCE rule is activated
- · If the score is DEUCE, the player who win the point take the ADVANTAGE
- · If the player who has the ADVANTAGE win the point, he win the game
- If the player who has the ADVANTAGE looses the point, the score is DEUCE

Example:

GAME SCORE

		1 wins	1 wins	2 wins	1 wins	2 wins	2 wins	2 wins	Player 1 wins 1 point	1 wins	1 wins
		•	•			•	•				-
Player 1	0	15	30	30	40	40	40	40	DEUCE	ADV	0

Player 2	0	0	0	15	15	30	40	ADV	DEUCE	40	0
											Player
											1 win
											the
											game

SPRINT2: manage a Tennis SET within a tennis match

User Story 1:

As a tennis referee

I want to manage the score of a set of a tennis match between 2 players In order to display the current Game (SPRINT 1) & Set score of each player

Rules details:

- The set starts with a score of 0 Game for each player
- Each time a player win a Game (see SPRINT 1), the Set score changes as follow:

- · If a player reach the Set score of 6 and the other player has a Set score of 4 or lower, the player win the Set
- · If a player wins a Game and reach the Set score of 6 and the other player has a Set score of 5, a new Game must be played and the first player who reach the score of 7 wins the match

Example:

SET SCORE

	Start the game & Set		Player 1 wins 1 point		Player 2 wins 1 point				Player 1 wins 1 point		Player 1 wins 1 point		Player 2 wins 1 Game		Player 2 wins 1 Game				Player 2 Gan		Player 2 Ga	2 wins 1 me	Player 2 wins 1 Game	
	Gam e Score	Set scor e	Game Score	Set score	Game Score	Set score	Game Score	Set score	Gam e Score	Set score	Game Score	Set score	Game Score	Set score	Gam e Score	Set score	Game Score	Set score	Game Score	Set scor e	Game Score	Set score	Game Score	Set score
Player 1 Player	0	0	15	0	30	0	30	0	40	0	0	1	0	1	0	1	0	1	0	1	0	1	0	1
2	0	0	0	0	0	0	15	0	15	0	0	0	0	1	0	2	0	3	0	4	0	5	0	6
												Player 1 wins the 1st game of the set												Player 2 wins the set

User Story 2:

As a tennis referee

I want to manage the specific of the rule of Tie-Break at the end of the Set In order to display the current Game, Set score & Tie-Break score of each player

Rules details:

- · If the 2 players reach the score of 6 Games , the Tie-Break rule is activated
- Each time a player win a point, the score changes as follow:

- The Tie-Break ends as soon as a player gets a least 7 points and 2 points more than his opponent
- The player who wins the Tie-Break wins the Set and the match

Example:

SET SCORE

	Initial Score Player 1 of the Set Player 1 point					Player 2 wins 1 point						Player 1 wins 1 point			Player 1 wins 1 point					Player 1 wins 1 point			Player 1 wins 1 point						Player 1 wins 1 point		
	Game Score	Set sco re	Ga m e Sc or e	Set score	Ga me Sco re	Se t sc or e	Tie Brea k scor e	Ga me Sco re	Se t sc or e	Tie Brea k scor e	Ga me Sco re	Set sco re	Tie Brea k scor e	Ga me Sco re	Set sco re	Tie Bre ak scor e	Ga me Sco re	Set sco re	Tie Bre ak scor	Ga me Sco re	Set sco re	Tie Bre ak scor e	Ga me Sco re	Set sco re	Tie Bre ak scor e	Ga me Sco re	Set sco re	Tie Bre ak scor e	Ga me Sco re	Set sco re	Tie Brea k scor e
Play er 1 Play er 2	40 15	5	0	6	0	6	1	0	6	1	0	6	2	0	6	3	0	6	3	0	6	4	0	6	5	0	6	6	0	7	0
																															Play er 1 wins the set and matc h