

# Coding Exercise

Live Odds Services



# CODING EXERCISE



## Instructions:

Please **provide the implementation of the Live Football World Cup Score Board** as a **simple library**:

1. Please read and familiarize yourself with the guidelines below.
2. Please **follow the guidelines** to implement the task as per requirements described further down in this document.



## Guidelines:

- ✓ **Keep it simple.** Follow the requirements and try to implement the simplest solution you can think of that works. Do not forget about edge cases!
- ✓ Use an in-memory store solution (for example just use collections to store the information you might require).
- ✓ We don't expect the solution to be a REST API, command line application, a Web Service, or Microservice. **Just a simple library implementation.**
- ✓ **Focus on Quality. Use Test-Driven Development (TDD)**, pay attention to OO design, Clean Code and adherence to SOLID principles.
- ✓ **Approach.** Code the solution according to your standards. Please **share your solution with a link to a source control repository (e.g. GitHub, GitLab, BitBucket)** as we would like you to see your progress (your commit history is important)
- ✓ Add a README.md file where beside the project documentation you can make notes of any assumption or things you would like to mention to us about your solution.



## Task requirements:

You are working in a sports data company, and we would like you to develop a new Live Football World Cup Scoreboard library that shows all the ongoing matches and their scores.

### The scoreboard supports the following operations:

1. Start a new match, assuming initial score 0 – 0 and adding it the scoreboard.  
This should capture following parameters:
  - a. Home team
  - b. Away team
2. Update score. This should receive a pair of absolute scores: home team score and away team score.
3. Finish match currently in progress. This removes a match from the scoreboard.
4. Get a summary of matches in progress ordered by their total score. The matches with the same total score will be returned ordered by the most recently started match in the scoreboard.

**For example, if following matches are started in the specified order and their scores respectively updated:**

- a. Mexico 0 - Canada 5
- b. Spain 10 - Brazil 2
- c. Germany 2 - France 2
- d. Uruguay 6 - Italy 6
- e. Argentina 3 - Australia 1

### The summary should be as follows:

1. Uruguay 6 - Italy 6
2. Spain 10 - Brazil 2
3. Mexico 0 - Canada 5
4. Argentina 3 - Australia 1
5. Germany 2 - France 2

**Good luck!**