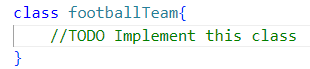
## Problem 2. Football team



Write a **class Football team**, which supports the described functionality below:

**Functionality**

**Constructor**

Should have these **3** properties:

* **clubName - string**
* **country - string**
* **invitedPlayers - empty array**

**At the initialization** of the **FootballTeam** class, the **constructor** accepts the **clubName** and **country.**

**Hint:** You can add more properties to help you finish the task.

### newAdditions(footballPlayers)

This method adds players to the invitation list. The method takes **one argument**: **footballPlayers (array of strings)**.

* **Every element** into this array is information about player in the format:

**"{name}/{age}/{playerValue}"**

* They are **separated** by slash symbol **"/"**. The **playerValue** is in millions. **Example**: ["**Kylian Mbappé/23/160**"**,** "**Lionel Messi/35/50**"**,** "**Pau Torres/25/52**"**…**]
* If the **name** of the current player is already present in **invitedPlayers** array, update the old **playerValue only if** the current one is **higher**.
* Otherwise, should **add** the player, with properties: **{name, age, playerValue}** to the **invitedPlayers array**.
* In **all cases**, you must **finally return a string** in the following format:

**"You successfully invite {name1}, {name2}, …{name**N}**."**

**Note**: When returning the **string**, keep in mind that the different **names** of **football Players** **must** be:

* **Unique** -for instance**:** 
  + **" You successfully invite Kylian Mbappé, Lionel Messi, Pau Torres "** - is a correctly returned string
  + **" You successfully invite Kylian Mbappé, Lionel Messi, Kylian Mbappé "**- is not a correctly returned string
* **Separated** by **comma** and **space (, )**

### signContract(selectedPlayer)

With this method, a manager can sign contracts with players from the invited list. The method takes **one argument**: **selectedPlayer (string)**.

* Тhe stringabout the selected player is in the format:

**"{name}/{playerOffer}"**

* Check:
  + If the **name** of the current player is not present in **invitedPlayers** array, an **error** with the following message should be **thrown**:

**"{name} is not invited to the selection list!"**

* + If the **playerOffer** selected by the manager for a given player **is less** than the value recorded in the array **invitedPlayers**,an **error** with the following message should be **thrown**:

**"The manager's offer is not enough to sign a contract with {name}, {priceDifference} million more are needed to sign the contract!"**

* + - **priceDifference -** is the difference between **playerValue** and **playerOffer.**
  + Otherwise, if the above conditions are not met, you must replace **playerValue** with the string "**Bought**"
  + Finally, you need to **return** the string in the following format:

**"Congratulations! You sign a contract with {BoughtPlayer} for {BuyingPrice} million dollars."**

### ageLimit(name, age)

With this method, we make sure that the players are young enough to sign **a five-year** contract with the team, a **reduced-time** contract, or no contract at all. The method takes **two arguments**:

* **name (string)**
* **age (number)**
* If the submitted **name** is not present in the **invitedPlayers** array, an **error** with the following message should be **thrown**:

**"{name} is not invited to the selection list!"**

* If the age recorded in the **invitedPlayers** array is **less than** the age submitted as an argument, you must check the difference between the **limit age** and **player age**. If the difference is **less** **than** 5 years, return the following string: **"{name} will sign a contract for {ageDifference} years with {clubName} in {country}!"**
  + **ageDifference -** is the difference between limit age and player age.
* If the age difference is **more** than **5** years, **return** the following message:

**"{name} will sign a full 5 years contract for {clubName} in {country}!"**

* If the player age from the **invitedPlayers** array is **greater** or **equal** to the age submitted as an argument, **return** the following message: **"{name} is above age limit!"**

### transferWindowResult()

* This method **returns** **all players**, The first line shows the following message:

**"Players list:"**

* On the new line, display information about each player sorted in **ascending** order of **name**:

**"Player {name}-{playerValue}"**

### Example

|  |
| --- |
| **Input 1** |
| let fTeam = new footballTeam("Barcelona", "Spain");   console.log(fTeam.newAdditions(["Kylian Mbappé/23/160", "Lionel Messi/35/50", "Pau Torres/25/52"])); |

|  |
| --- |
| **Output 1** |
| You successfully invite Kylian Mbappé, Lionel Messi, Pau Torres. |

|  |
| --- |
| **Input 2** |
| let fTeam = new footballTeam("Barcelona", "Spain");  console.log(fTeam.newAdditions(["Kylian Mbappé/23/160", "Lionel Messi/35/50", "Pau Torres/25/52"]));  console.log(fTeam.signContract("Lionel Messi/60"));  console.log(fTeam.signContract("Kylian Mbappé/240"));  console.log(fTeam.signContract("Barbukov/10")); |

|  |
| --- |
| **Output 2** |
| You successfully invite Kylian Mbappé, Lionel Messi, Pau Torres.  Congratulations! You sign a contract with Lionel Messi for 60 million dollars.  Congratulations! You sign a contract with Kylian Mbappé for 240 million dollars.  Uncaught Error: Barbukov is not invited to the selection list! |

|  |
| --- |
| **Input 3** |
| let fTeam = new footballTeam("Barcelona", "Spain");  console.log(fTeam.newAdditions(["Kylian Mbappé/23/160", "Lionel Messi/35/50", "Pau Torres/25/52"]));  console.log(fTeam.ageLimit("Lionel Messi", 33 ));  console.log(fTeam.ageLimit("Kylian Mbappé", 30));  console.log(fTeam.ageLimit("Pau Torres", 26));  console.log(fTeam.signContract("Kylian Mbappé/240")); |

|  |
| --- |
| **Output 3** |
| You successfully invite Kylian Mbappé, Lionel Messi, Pau Torres.  Lionel Messi is above age limit!  Kylian Mbappé will sign a full 5 years contract for Barcelona in Spain!  Pau Torres will sign a contract for 1 years with Barcelona in Spain!  Congratulations! You sign a contract with Kylian Mbappé for 240 million dollars. |

|  |
| --- |
| **Input 4** |
| let fTeam = new footballTeam("Barcelona", "Spain");  console.log(fTeam.newAdditions(["Kylian Mbappé/23/160", "Lionel Messi/35/50", "Pau Torres/25/52"]));  console.log(fTeam.signContract("Kylian Mbappé/240"));  console.log(fTeam.ageLimit("Kylian Mbappé", 30));  console.log(fTeam.transferWindowResult()); |

|  |
| --- |
| **Output 4** |
| You successfully invite Kylian Mbappé, Lionel Messi, Pau Torres.  Congratulations! You sign a contract with Kylian Mbappé for 240 million dollars.  Kylian Mbappé will sign a full 5 years contract for Barcelona in Spain!  Players list:  Player Kylian Mbappé-Bought  Player Lionel Messi-50  Player Pau Torres-52 |