Problem 2. Football team

```
class footballTeam{
    //TODO Implement this class
}
```

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}, ...{nameN}."
```

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

The string about the selected player is in the format:

"{name}/{playerOffer}"

- Check:
- o 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!"

o 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:

- o name (string)
- o 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 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}!"
 - o 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 than 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.

Output 4

You successfully invite Kylian Mbappé, Lionel Messi, Pau Torres.

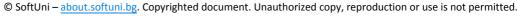
Congratulations! You sign a contract with Kylian Mbappé for 240 million dollars.

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









