# Triathlon

## Triathlon Class

class Triathlon {

//TODO: Implement this class…

}

Implement a **class Triathlon**, which supports the functionality described below.

### Functionality

### Constructor

The constructor has **3** properties:

* **competitionName – a string**
* **participants – an empty object**
* **listOfFinalists – an empty array**

**At the initialization** of the **Triathlon** class, the **constructor** accepts only one parameter **competitionName** which is a **string**!

The **participants** property is an **object**, representing a key-value pair of a participant name and gender.

### Methods

#### addParticipant (participantName, participantGender)

This method adds a new participant to the **participants** object. The methodaccepts 2 arguments:

* **participantName – a string**
* **participantGender – a string**

If the **participant exists in the participants object**, **return** the following message:

**`${participantName} has already been added to the list`**

Otherwise, **add the new participant** to the **participants** object in the following format **{‘Peter’ : ‘male’}** and **return** the following message:

**`A new participant has been added - ${participantName}`**

#### completeness (participantName, condition)

Accept 2 arguments:

* **participantName – a string**
* **condition – a number (0 – 100)**

If the participant doesn’t exist in the participants object, **throw new Error**:

**`$****{participantName} is not in the current participants list`**

There are three disciplines in the triathlon, and each requires the participant condition to be at least **30** for a discipline to be completed.

If the participant exists in the participants object but his condition is lower than **30**, **throw a new Error**:

**`${participantName} is not well prepared and cannot finish any discipline`**

Afterwards, find how many disciplines is the participant able to complete depending on his **condition** (**condition divided by 30**). If they completed only one or two disciplines, **return** the following message:

**`${participantName} could only complete ${completedCount} of the disciplines`**

Otherwise extract the participant from the participants object and add him to the **list of finalists** in the following format: **{ participantName, participantGender }**

**Return** the following message:

**`Congratulations, ${participantName} finished the whole competition`**

#### rewarding (participantName)

Accept 1 argument:

* **participantName – a string**

If the **participantName** is not present in the **list of finalists, return** the following message:

**`${participantName} is not in the current finalists list`**

Otherwise, **return** the following message:

**`${participantName} was rewarded with a trophy for his performance`**

#### showRecord (criteria)

Accept 1 argument:

* **criteria – a string**

This method **returns information** based on the criteria. The three possible types of criteria are: **"male"**, **"female"** or **"all".**

If the **list of finalists is empty**, return the following message:

**`There are no finalists in this competition`**

If there are no finalists with the given **criteria**, **return**:

**`There are no ${participantGender}'s that finished the competition`**

If there are finalists with the given **criteria, return** a message with the **firstly added participant** in the following format**:**

**`${participantName} is the first ${criteria} that finished the ${competitionName} triathlon`;**

Otherwise if the criteria is **all,** returnall finalists from the **list of finalists** array in following format:

* On first line show the following message:

**`List of all ${competitionName} finalists:`**

* On the following lines, display the names of each finalist sorted in ascending order:

**`${participantName}`**

### Examples

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| **Input 1** |
| const contest = new Triathlon("Dynamos");  console.log(contest.addParticipant("Peter", "male"));  console.log(contest.addParticipant("Sasha", "female"));  console.log(contest.addParticipant("Peter", "male")); |

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| **Output 1** |
| A new participant has been added - Peter  A new participant has been added - Sasha  Peter has already been added to the list |

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| **Input 2** |
| const contest = new Triathlon("Dynamos");  console.log(contest.addParticipant("Peter", "male"));  console.log(contest.addParticipant("Sasha", "female"));  console.log(contest.addParticipant("George", "male"));  console.log(contest.completeness("Peter", 100));  console.log(contest.completeness("Sasha", 70));  console.log(contest.completeness("George", 20)); |

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| **Output 2** |
| A new participant has been added - Peter  A new participant has been added - Sasha  A new participant has been added - George  Congratulations, Peter finished the whole competition  Sasha could only complete 2 of the disciplines  Uncaught Error: George is not well prepared and cannot finish any discipline |

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| **Input 3** |
| const contest = new Triathlon("Dynamos");  console.log(contest.addParticipant("Peter", "male"));  console.log(contest.addParticipant("Sasha", "female"));  console.log(contest.completeness("Peter", 100));  console.log(contest.completeness("Sasha", 70));  console.log(contest.rewarding("Peter"));  console.log(contest.rewarding("Sasha")); |

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| **Output 3** |
| A new participant has been added - Peter  A new participant has been added - Sasha  Congratulations, Peter finished the whole competition  Sasha could only complete 2 of the disciplines  Peter was rewarded with a trophy for his performance  Sasha is not in the current finalists list |

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| **Input 4** |
| const contest = new Triathlon("Dynamos");  console.log(contest.showRecord("all")); |

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| **Output 4** |
| There are no finalists in this competition |

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| **Input 5** |
| const contest = new Triathlon("Dynamos");  console.log(contest.addParticipant("Peter", "male"));  console.log(contest.addParticipant("Sasha", "female"));  console.log(contest.completeness("Peter", 100));  console.log(contest.completeness("Sasha", 90));  console.log(contest.rewarding("Peter"));  console.log(contest.rewarding("Sasha"));  console.log(contest.showRecord("all")); |

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| **Output 5** |
| A new participant has been added - Peter  A new participant has been added - Sasha  Congratulations, Peter finished the whole competition  Congratulations, Sasha finished the whole competition  Peter was rewarded with a trophy for his performance  Sasha was rewarded with a trophy for his performance  List of all Dynamos finalists:  Peter  Sasha |

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| **Input 6** |
| const contest = new Triathlon("Dynamos");  console.log(contest.addParticipant("Peter", "male"));  console.log(contest.addParticipant("Sasha", "female"));  console.log(contest.addParticipant("George", "male"));  console.log(contest.completeness("Peter", 100));  console.log(contest.completeness("Sasha", 90));  console.log(contest.completeness("George", 95));  console.log(contest.rewarding("Peter"));  console.log(contest.rewarding("Sasha"));  console.log(contest.rewarding("George"));  console.log(contest.showRecord("male")); |

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| **Output 6** |
| A new participant has been added - Peter  A new participant has been added - Sasha  A new participant has been added - George  Congratulations, Peter finished the whole competition  Congratulations, Sasha finished the whole competition  Congratulations, George finished the whole competition  Peter was rewarded with a trophy for his performance  Sasha was rewarded with a trophy for his performance  George was rewarded with a trophy for his performance  Peter is the first male that finished the Dynamos triathlon |