

Package fr.rphstudio.codingdojo.game.functions.race

Interface GenericRaceFunctions

public interface **GenericRaceFunctions**



RACE INFO (all ships).

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Method Summary

All Methods **Instance Methods** **Abstract Methods**

Modifier and Type	Method	Description
float	getLapPercent (int index)	This function is the same than <code>ShipRaceFunctions.getLapPercent()</code> but for a specific ship.
int	getNbCompletedLaps (int index)	This function is the same than <code>ShipRaceFunctions.getNbCompletedLaps()</code> but for a specific ship.
int	getNbValidCheckPoints (int index)	This function is the same than <code>ShipRaceFunctions.getNbValidCheckPoints()</code> but for a specific ship.
boolean	isDisqualified (int index)	Gets an information about the validity of a specific ship.

Method Detail

getNbValidCheckPoints

int getNbValidCheckPoints(int index)

This function is the same than `ShipRaceFunctions.getNbValidCheckPoints()` but for a specific ship. The ship index is given in parameter. This function is useable with any code level.

Parameters:

index - the index of the requested ship. This is an integer value between 0 and N-1, with N the number of ships returned by `MainFunctions.getNbShips()`. Be careful if the index value is out of the range, the result of this function will be for the current ship.

Returns:

an integer value. See `ShipRaceFunctions.getNbValidCheckPoints()` for details

getNbCompletedLaps

```
int getNbCompletedLaps(int index)
```

This function is the same than `ShipRaceFunctions.getNbCompletedLaps()` but for a specific ship. The ship index is given in parameter. This function is useable with any code level.

Parameters:

index - the index of the requested ship. This is an integer value between 0 and N-1, with N the number of ships returned by `MainFunctions.getNbShips()`. Be careful if the index value is out of the range, the result of this function will be for the current ship.

Returns:

an integer value. See `ShipRaceFunctions.getNbCompletedLaps()` for details

getLapPercent

```
float getLapPercent(int index)
```

This function is the same than `ShipRaceFunctions.getLapPercent()` but for a specific ship. The ship index is given in parameter. This function is useable with any code level.

Parameters:

index - the index of the requested ship. This is an integer value between 0 and N-1, with N the number of ships returned by `MainFunctions.getNbShips()`. Be careful if the index value is out of the range, the result of this function will be for the current ship.

Returns:

a floating value. See `ShipRaceFunctions.getLapPercent()` for details

isDisqualified

```
boolean isDisqualified(int index)
```

Gets an information about the validity of a specific ship. The ship index is given in parameters. A ship can be disqualified if it does not reach the next checkpoint below a time limit (`Common.CHECKPOINT_TIME_LIMIT`), or if it goes too far off the screen, or if the ship program calls a function with a forbidden code level. The track valid area is about `Common.VALID_LIMIT` pixels all around a full HD screen (1920x1080). The corresponding bounds are xmin:`Common.MIN_POSX` / xmax:`Common.MAX_POSX` / ymin:`Common.MIN_POSY` / ymax:`Common.MAX_POSY` This function is useable with any code level.

Parameters:

index - the index of the requested ship. This is an integer value between 0 and N-1, with N the number of ships returned by `MainFunctions.getNbShips()`. Be careful if the index value is out of the range, the result of this function will be for the current ship.

Returns:

a boolean value that says of the current ship has been disqualified (true) or not (false).