

Class CompetitorList

java.lang.Object
CompetitorList

```
public class CompetitorList  
extends java.lang.Object
```

This class contains an ArrayList of Swimmer objects. It contains methods that are used to generate the report and look up a competitor using their number.

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Field Summary

Fields

Modifier and Type	Field	Description
java.util.ArrayList<Swimmer>	swimList	

Constructor Summary

Constructors

Constructor	Description
CompetitorList()	Creating an ArrayList of swimmers

Method Summary

All Methods Instance Methods Concrete Methods

Modifier and Type	Method	Description
void	addSwimmer (Swimmer s)	This method adds swimmers to the list.
java.lang.String	checkSwim (java.lang.String SwimmerNumber)	This method is used to search for a swimmer using their unique identification number
java.lang.String	getReport ()	This method produces the desired report by calling the methods from this class.

Modifier and Type	Method	Description
java.lang.String	getListSize()	This method returns a statement with the number size of the list.
void	readFile (java.lang.String filename)	This method reads the input file.
java.lang.String	scoreFrequency()	This method uses the value of scores as an index and returns the frequency of the scores.
java.lang.String	tableOfComp()	This method generates a table/list of all the swimmers with the help of String formatting.
java.lang.String	topScorer()	This method returns the name of the competitor who has the highest overall score
void	writeToFile (java.lang.String filename, java.lang.String report)	This method will write the generated report to the output file

Methods inherited from class java.lang.Object

equals, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

Field Details

swimList

```
public java.util.ArrayList<Swimmer> swimList
```

Constructor Details

CompetitorList

```
public CompetitorList()
```

Creating an ArrayList of swimmers

Method Details

addSwimmer

```
public void addSwimmer(Swimmer s)
```

This method adds swimmers to the list.

Parameters:

s -

checkSwim

```
public java.lang.String checkSwim(java.lang.String SwimmerNumber)
```

This method is used to search for a swimmer using their unique identification number

Parameters:

SwimmerNumber - is taken as a parameter

Returns:

short details of the swimmer whose number has been entered (or) return null if the number doesn't exist.

getReport

```
public java.lang.String getReport()
```

This method produces the desired report by calling the methods from this class.

Returns:

the final report

tableOfComp

```
public java.lang.String tableOfComp()
```

This method generates a table/list of all the swimmers with the help of String formatting.

Returns:

a display of swimmers, their full and short details.

getListSize

```
public java.lang.String getListSize()
```

This method returns a statement with the number size of the list.

Returns:

size of list.

topScorer

```
public java.lang.String topScorer()
```

This method returns the name of the competitor who has the highest overall score

Returns:

the name of the competitor

scoreFrequency

```
public java.lang.String scoreFrequency()
```

This method uses the value of scores as an index and returns the frequency of the scores.

Returns:**readFile**

```
public void readFile(java.lang.String filename)
```

This method reads the input file.

Parameters:

filename -

writeToFile

```
public void writeToFile(java.lang.String filename,  
                        java.lang.String report)
```

This method will write the generated report to the output file

Parameters:

filename -

report -