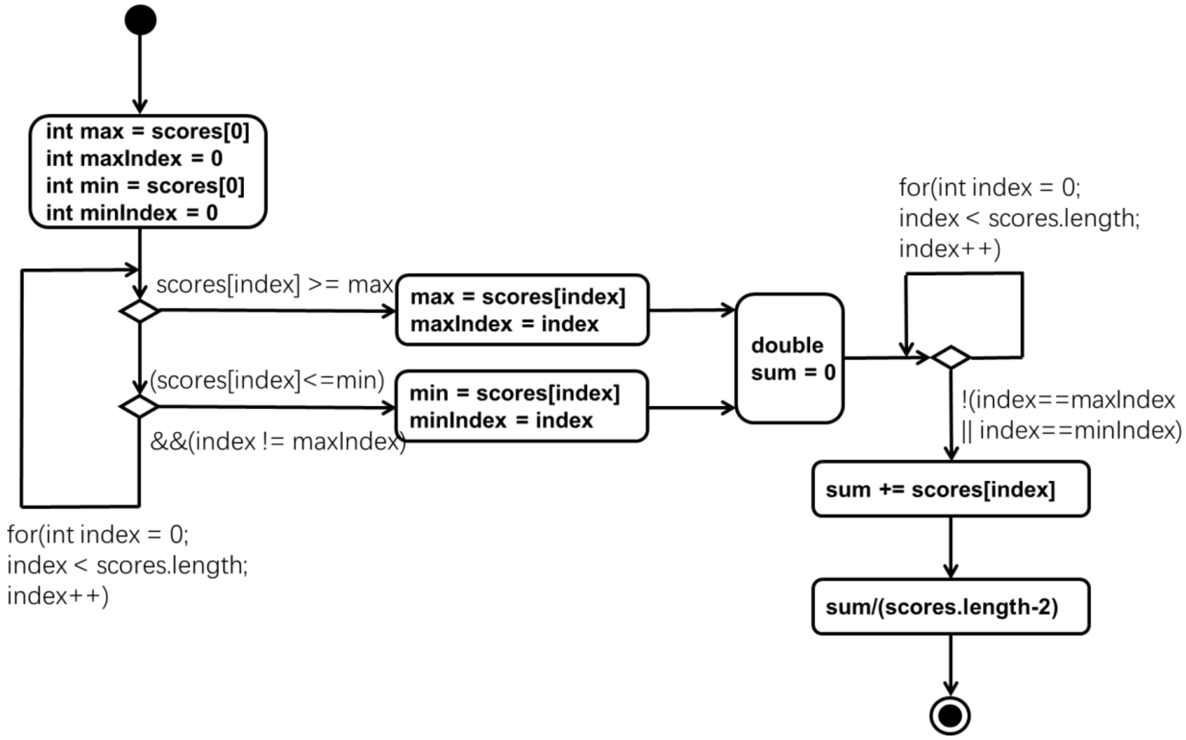
Submission Report

1. My decisions

I chose three digits as competitor number, and age and country as extra attributes. I used four kinds of level which are common, uncommon, rare and legendary. There are five scores in each competitor and the value between 0 and 5 included.



graph1. Activity diagram of overall score calculation

2. Status report

This application meets the specification fully.

Problem	Effect
A long name, a long country name, the uncommon level	A single \t cannot hold anymore, this will break the structure of table
The number of scores, the value of scores	Assume that won't happened
The primary key isn't a three digitals number	This is unlikely to occur

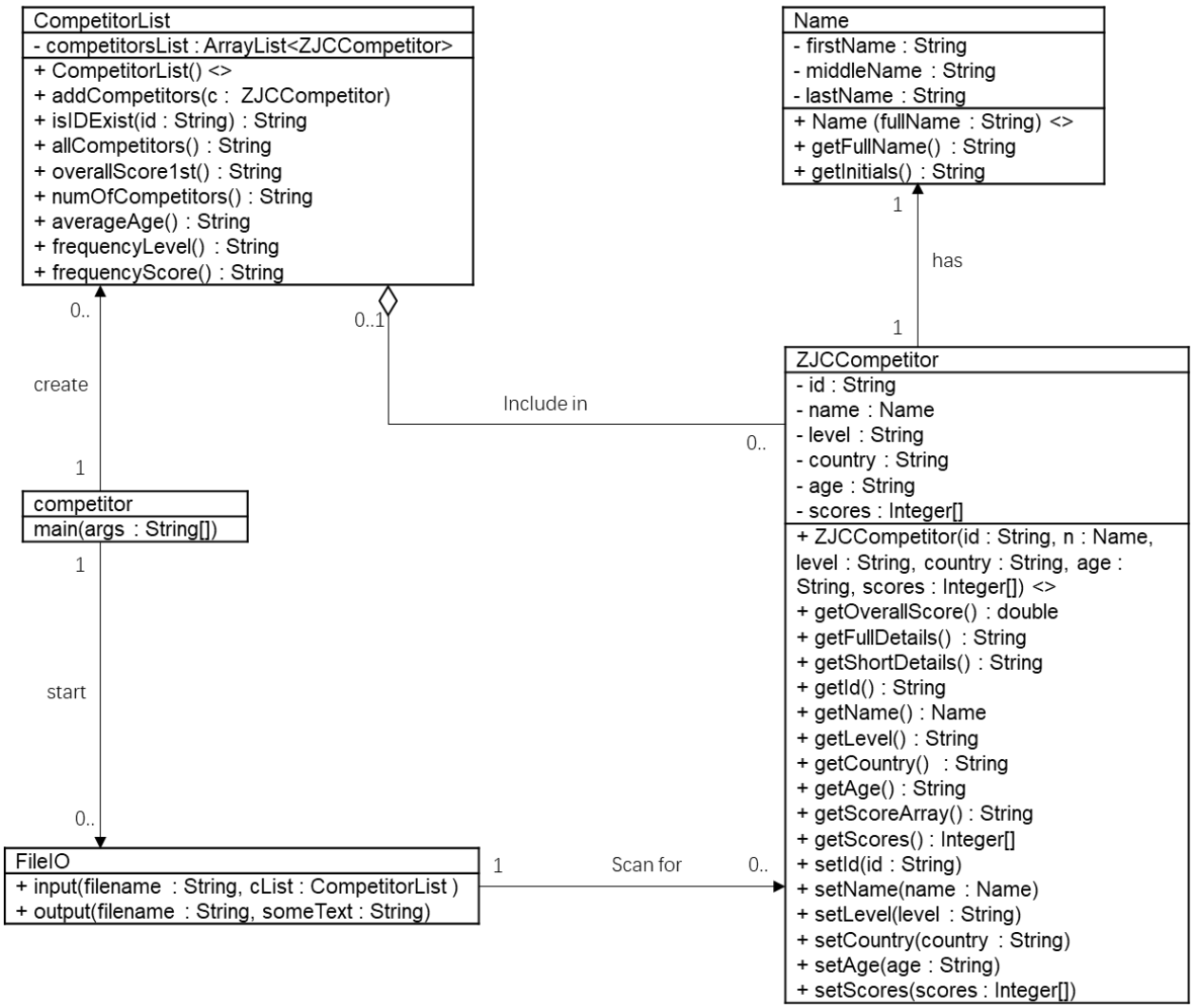
table1. Known limitations of application

Test	Tested
There are too many comma	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
Empty line	
Some information lack or forget comma	101, Jane Macdonald Uncommon, United Kindom, 23, 3,1,3,2,4
Useless information	fdgfsfgsfsg
Input wrong file	System.xml

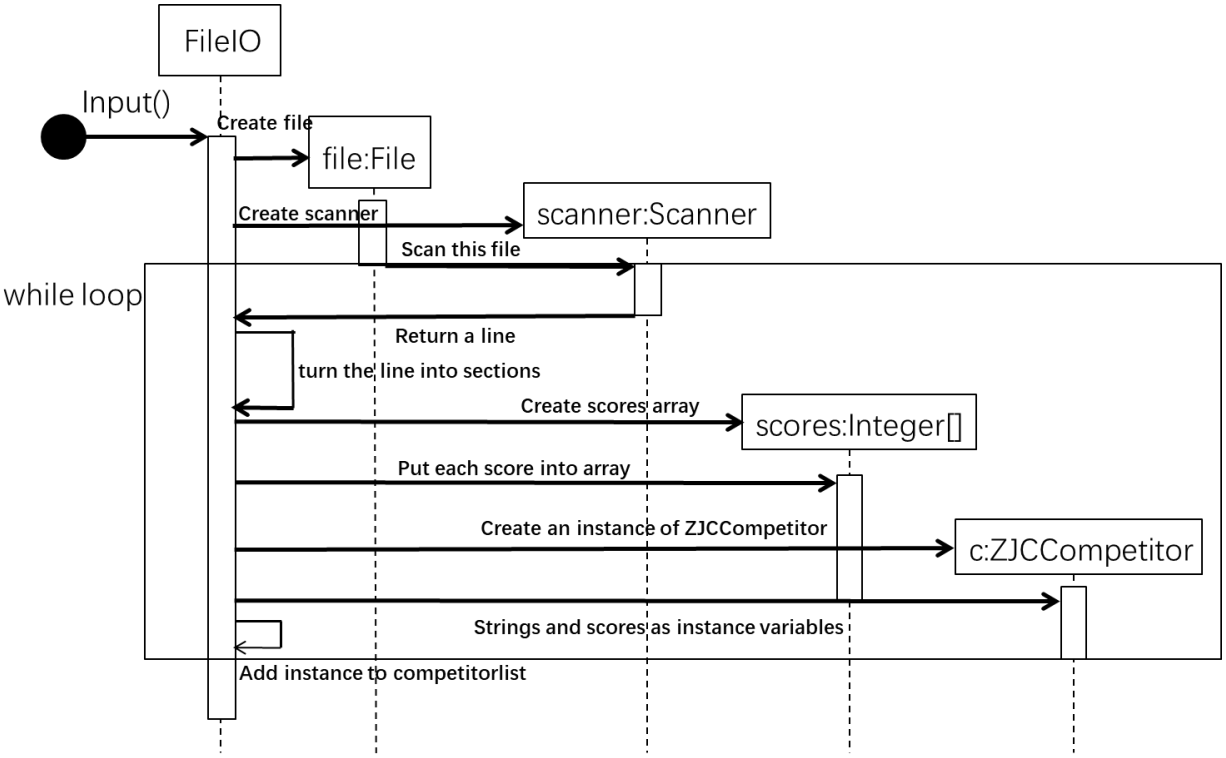
Duplicated primary key	100, Keith John Talbot, Common, UK, 31, 5,4,5,4,3 100, Sarah Green, common, Iceland, 20, 4,0,4,2,3
Can't find the file	asdfsdf.txt
Can't write to file	The file is read only
There is no space between first name and last name	106, KarenHarding, Rare, Austrilia, 25, 5,5,5,4,1
Two competitor have same highest overall score	105, Geralt Of Rivia, Rare, Oxenfurt, 105, 5,5,5,5,5 109, Darth Maul, Legendary, Dathomir, 52, 5,5,5,5,5

table2. Known bugs and tested

3. Diagrams



picture2. Class diagram



picture3. sequence diagram of input method

4. JavaDoc

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SEARCH: search reset

Class CompetitorList

java.lang.Object
CompetitorList

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

This class is the to store competitors in an ArrayList and is used to give information of competitors in various ways.

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Field Summary

Fields

Modifier and Type	Field	Description
`private java.util.ArrayList<ZJCCompetitor>`	`competitorsList`	

Constructor Summary

Constructors

Constructor	Description
`CompetitorList()`	Creates a CompetitorList object with nothing.

Method Summary

All Methods | Instance Methods | Concrete Methods

Modifier and Type	Method	Description
void	addCompetitors (ZJCCompetitor c)	Add a competitor into the list and check whether there is a same primary key.
java.lang.String	allCompetitors()	To create a formative long string of information of every competitors.
java.lang.String	averageAge()	get the average age of all competitors.
java.lang.String	frequencyLevel()	this is to count how many competitor in each level.
java.lang.String	frequencyScore()	here used a same method in lecture that consider the value of scores as the index of an array.
java.lang.String	isIDExist (java.lang.String id)	check if there is a id in the competitor list.
java.lang.String	numOfCompetitors()	knowing how many competitors there are.
java.lang.String	overallScore1st()	to find out who got the highest overall score and maybe there are more than one competitor got the same score

Methods inherited from class java.lang.Object

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

Field Details

competitorsList

private java.util.ArrayList<ZJCCompetitor> competitorsList

Constructor Details

CompetitorList

public CompetitorList()
Creates a CompetitorList object with nothing.

Method Details

addCompetitors

public void addCompetitors(ZJCCompetitor c)
Add a competitor into the list and check whether there is a same primary key.

Parameters:
`c` - is a competitor that going to be added. if the id isn't exist in list then add, or get the name of the competitor who has a same id and print it.

isIDExist

public java.lang.String isIDExist(java.lang.String id)
check if there is a id in the competitor list.

Parameters:
`id` - is the id need to search.
Returns:

null if the id that looking for doesn't in list. otherwise the short details of the competitor with that id if there it is.

allCompetitors

public java.lang.String allCompetitors()
To create a formative long string of information of every competitors.

Returns:
a table of information of all competitors in the list

overallScore1st

public java.lang.String overallScore1st()
to find out who got the highest overall score and maybe there are more than one competitor got the same score

Returns:
the competitors who have the highest overall score
Throws:
`java.lang.IndexOutOfBoundsException` - which means the input data has problem, wrong file or no data meet requirements

numOfCompetitors

public java.lang.String numOfCompetitors()
knowing how many competitors there are.

Returns:
a string to show this information

averageAge

public java.lang.String averageAge()
get the average age of all competitors. I turned age into double first and reserve one digital of the result.

Returns:
a string to show this information

frequencyLevel

public java.lang.String frequencyLevel()
this is to count how many competitor in each level.

Returns:
a long sentence that give the number of level.

frequencyScore

public java.lang.String frequencyScore()
here used a same method in lecture that consider the value of scores as the index of an array.

Returns:
a small table of how many scores in each value.

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