

Class Lesson

java.lang.Object
Lesson

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

Class Lesson is a Ski lesson for a certain level of skiers. It may be empty or contain a number of ski students. In this version of the class, there is no limit to the number of students in the lesson.

Constructor Summary

Constructors

Constructor and Description

Lesson(int level)

Creates a lesson for a given level.

Lesson(int level, **SkierList** students)

Creates a lesson for the given level, and populates the lesson with Skiers.

Method Summary

All Methods

Static Methods

Instance Methods

Concrete Methods

Modifier and Type

Method and Description

void

addSkier(**Skier** skier)

Adds a new skier to the list.

java.lang.String

getName()

boolean

isRegistered(**Skier** skier)

Determines whether a particular skier is registered for this Lesson.

static void

main(java.lang.String[] args)

Used as a test harness for the class.

int **numStudents()**

void **removeSkier(Skier skier)**
Removes a skier from the lesson.

void **setLessonLevel(int level)**
Sets the lesson name based on the level of the students.

java.lang.String **toString()**
Prints a list of the students.

Methods inherited from class java.lang.Object

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

Constructor Detail

Lesson

```
public Lesson(int level)
```

Creates a lesson for a given level.

Parameters:

level - The level of the students who will take this lesson. If the level is out of range (0 ... 4), then the level is defaulted to 0.

Lesson

```
public Lesson(int level,  
               SkierList students)
```

Creates a lesson for the given level, and populates the lesson with Skiers.

Parameters:

level - The level of the students who will take this lesson. If the level is out of range (0 ... 4), then the level is defaulted to 0.

students - The SkierList. Note that all skiers in the list are assumed to be in the correct level. No checking is done for skiers who are in the wrong level in this version of the class.

Method Detail

setLessonLevel

```
public void setLessonLevel(int level)
```

Sets the lesson name based on the level of the students. The level names associated with the level numbers are as follows:

0. Beginner
1. Novice
2. Snowplower
3. Intermediate
4. Advanced

If the level is out of range (0 ... 4), then the level remains unchanged. This method does not reset the levels of the individual skiers in the lesson.

Parameters:

level - The new level.

getName

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

Returns:

The group name of the lesson. The name is one of the following that is based on the level number:

- Beginner
- Novice
- Snowplower
- Intermediate
- Advanced

numStudents

```
public int numStudents()
```

Returns:

The number of skiing students in the lesson.

addSkier

```
public void addSkier(Skier skier)
```

Adds a new skier to the list. Before adding the skier to the lesson, the skier's level is

updated to fit the level of the lesson.

Parameters:

skier - The skier to add to the class. If the skier is already present, then nothing is added.

removeSkier

```
public void removeSkier(Skier skier)
```

Removes a skier from the lesson. If the skier is not in the lesson, then nothing is removed.

Parameters:

skier - The skier to remove.

isRegistered

```
public boolean isRegistered(Skier skier)
```

Determines whether a particular skier is registered for this Lesson.

Parameters:

skier - The skier in question.

Returns:

true if the skier is registered for the lesson, false if not.

toString

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

Prints a list of the students. The list is presented in the following format:

```
<lessonName> group:  
<string representation of skier object>  
<string representation of skier object>  
<...>
```

For the <string representation of skier object> see the [Skier.toString](#) method. Note that the lesson name and each student is on a separate line. Note also that the list of skiers is in no particular order.

Overrides:

toString in class java.lang.Object

Returns:

The string containing the information in the above format.

main

```
public static void main(java.lang.String[] args)
```

Used as a test harness for the class.

Parameters:

args - Not used.

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