

## FileIOHelper and Student

- The *FileIOHelper* class provides two class methods:
  - `int FileIOHelper.getNumberOfStudents(String fileName)`: takes a `String` parameter which is the name of an input file in the format described in the lab, and returns the number of students in the file;
  - `Student FileIOHelper.getNextStudent()`: takes no parameters, inputs the name and scores for the next student in the input file, and returns a *Student* object with the corresponding value.

## FileIOHelper and Student cont.

- A *Student* object has a name (`String`) and three scores (integers). The *Student* class provides the following (instance) methods to manipulate *Student* objects:
  - `Student(String name)`: returns a *Student* object with the given name and 0 for all the scores (constructor)
  - `String std.getName()`: returns the name of student *std*
  - `int std.getScore(int i)`: returns the *i*-th score (*i* between 1 and 3) for student *std*
  - `void std.setScore(int i, int x)`: sets the *i*-th score (*i* between 1 and 3) for student *std* to the value *x* ( $x \geq 0$ )

## FileIOHelper and Student cont.

```
int n = FileIOHelper.getNumberOfStudents("info.txt");  
System.out.println("Number of students: " + n);
```

```
Student std = FileIOHelper.getNextStudent();  
System.out.println("Name: " + std.getName());
```

```
int score1 = std.getScore(1);  
std.setScore(2, score1 + 20);
```

```
System.out.println("Score #1: " + score1);  
System.out.println("Score #2: " + std.getScore(2));  
System.out.println("Score #3: " + std.getScore(3));
```