ECE 325 OBJECT-ORIENTED SOFWARE DES (LEC A1 Fa18)

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Assignment 5: Interfaces

·Source code: Coffee.java; CoffeeTest.java; PersonTest.java.

·Due date: **Thursday 1st of November (5:00 pm)**. A working copy of your solution must be submitted to eClass before this date.

Exercise 1

Java defines a Comparable interface (java.lang.Comparable); this interface is a parameterized interface. We will discuss parameterized classes and interfaces in detail later in the course. For now, you do not need to know too much about parameterization -- just use it.

Read the code in *Coffee.java*. You are required to complete the class definition to allow collections of coffees to be sorted by the strength.

Find the code from *CoffeeTest.java*. What imports are required to allow it to compile? And how would I rewrite this class to utilize JUnit? Create a JUnit project as submission.

Exercise 2

Consider the code below. It describes 5 types either classes or interfaces.

```
U u; G g; B b; Z z; X x;
```

The following assignments are all legal and compile:

```
u = z; x = b; g = u; x = u;
```

However, the following assignments are all illegal and cause compilation errors:

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```
u = b; x = g; b = u; z = u; g = x;
```

What can you state about the types and their relationships (to each other)? Provide at least one possible answer.

Exercise 3

What imports are required to allow it to compile? And how would I rewrite this class to utilize JUnit? Create a JUnit project as submission.

- Coffee.java +
- CoffeeTest.java +
- PersonTest.java +

Submission status

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Attempt number	This is attempt 1 (1 attempts allowed).		
Submission status	Submitted for grading		
Grading status	Graded		
Due date	Thursday, 1 November 2018, 5:00 PM		
Time remaining	Assignment was submitted 4 hours 34 mins early		
Last modified	Thursday, 1 November 2018, 12:25 PM		
File submissions	Assignment5.zip + Export to portfolio		
Submission comments Comments (0)			
	Edit submission Make changes to your submission		

Feedback

Grade	9.00 / 10.00	
Graded on	Thursday, 8 November 2018, 12:00 PM	
Graded by	Mingjun Zhao	
Feedback comments	Part 3: (-1) Unit testing: does not test if the TreeSet is ordered.	

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