

Quiz Submissions - Interfaces Homework Quiz



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Retaken Attempt 2

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→ Question 1 Retaken

2 / 2 points

Which line of code indicates that `DateTime` is a class which allows `DateTime` objects to be compared to each other?

- ✓ ☒ `public class DateTime implements Comparable<DateTime>`
- ☐ `public class DateTime<T extends Comparable<T>>`
- ☐ `public class DateTime<T extends Comparable<DateTime>>`

→ Question 2 Retaken

2 / 2 points

Which line of code indicates that `SortedList` is a class which uses a type parameter that specifies a comparable type?

- ✓ ☒ `public class DateTime<T extends Comparable<T>>`
- ☐ `public class DateTime<T extends Comparable<DateTime>>`
- ☐ `public class DateTime implements Comparable<DateTime>`

Question 3 Correct on previous attempt(s)

2 / 2 points

Why would a class `X` require a type parameter `T` that implements `Comparable`?

So that methods in `X` can use the `compareTo()` function to compare objects of type `T`.



☐ So that objects of type **X** can be compared to objects of type **T**.

☐ So that **X** can implement `compareTo()`.

Question 4 Correct on previous attempt(s)**2 / 2 points**

Is it necessary to use **T** as the name of a type parameter?



Yes.



No, it can be any single letter name.



No, it is just a common convention.

→ Question 5 Retaken**2 / 2 points**

Which of these is an example of the Liskov Substitution Principle? (Select all that apply.)



A method with a parameter of type **Comparable** may accept any class that implements **Comparable**.



A method with a parameter of type **TimeOfDay** accepts arguments of type **TimeOfDay**.



A class which requires a type parameter that implements **Comparable** can use any class that implements **Comparable** as a type parameter.

→ Question 6 Retaken**2 / 2 points**

Which of these statements is true regarding the **Predicate** interface? (Select all that apply.)



It contains a single method, called `test()`.



It requires a type parameter that implements **Comparable**.



It is often implemented by a class whose sole purpose is to implement **Predicate**.



It could be considered a work-around for Java's inability to pass a function as an argument to another function.

Attempt Score:  12 / 12 - 100 %

Overall Grade (highest attempt):  12 / 12 - 100 %

Done