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Grade received 100% To pass 80% or higher

### Module Review

Latest Submission Grade 100%

1. True or False? Collections can hold any valid java object but cannot hold primitives or arrays.

1 / 1 point

☒ True

☐ False

✓ Correct

That's right. Collections can hold any valid java object but cannot hold primitives or arrays.

2. Which of the following are the implementing classes of **List**? Select all that apply.

1 / 1 point

☐ Iterator

☒ ArrayList

✓ Correct

That's right!

☒ Stack

✓ Correct

Yes!

☐ Comparator

☒ LinkedList

✓ Correct

That's right!

☒ Vector

✓ Correct

That's right!

3. Why is an **ARRAY LIST** more flexible than an **ARRAY**?

1 / 1 point

☐ We can reuse them between applications.

☐ We do not have to declare the types of items to store.

☒ We do not have to know the maximum number of items to store.

✓ Correct

Yes. We can use an array list without knowing the number of items we will be storing.

4. A **collections framework** is a unified architecture for representing and manipulating collections. Which of the following must ALL collections frameworks contain?

1 / 1 point

☐ Inheritance

☒ Interfaces

✓ Correct

Yes. All collections frameworks must contain interfaces.

☒ Algorithms

✓ Correct

Yes. All collections frameworks must contain algorithms.

☒ Implementations

☒ **Correct**

Yes. All collections frameworks must contain implementations.

☐ Maps

5. What are **implementations**?

1 / 1 point

- ☐ These are abstract data types that represent collections.
- ☒ These are the reusable data structures.
- ☐ These are the methods that perform useful computations.

☒ **Correct**

Yes. These are the concrete implementations of the collection interfaces. In essence, they are reusable data structures.

6. Which of the following are advantages of **collections**? (select all that apply)

1 / 1 point

☐ Reduces API interoperability

☒ Fosters software reuse

☒ **Correct**

Yes, collections foster software reuse.

☒ Increases performance

☒ **Correct**

Yes, Collections help increase performance.

☒ Reduces programming effort

☒ **Correct**

Yes. Collections help reduce programming effort.

7. What is a **Convenience Implementation**?

1 / 1 point

- ☒ A high-performance "mini-implementation" of the collection interface.
- ☐ A static method that performs useful functions on collections.
- ☐ A primary implementation of the collection interface.

☒ **Correct**

Correct.

8. What are **Java Streams**?

1 / 1 point

- ☒ Streams are wrappers around a data source that allow us to operate with that data source, making bulk processing convenient and fast.
- ☐ Streams are used when you wish to be able to iterate over array contents in a defined order.
- ☐ Streams provide simple methods for accessing the elements of a container from first to last. The two most important are next() and hasNext().

☒ **Correct**

Correct.

9. Which of the following is a **collection** in which the elements have been placed in a specific order?

1 / 1 point

- ☒ List
- ☐ Set
- ☐ Map

☒ **Correct**

✓ **Correct**

Right. A list is a collection in which the elements have been placed in a specific order. You can specify the exact position of any element in the list.

10. Instead of using an **iterator class**, what are other options to iterate through a scenario?

1 / 1 point

☐ process-until method

☒ enhanced for loop

✓ **Correct**

Yes. You can use an enhanced for loop to iterate through a scenario.

☐ do/while loop

☒ for/each method

✓ **Correct**

Yes. You can use the for/each method to iterate through a scenario.