W2D1 Homework

1.

• Collections – It consists of static methods that can function or return collections.

• Collection –Is the root interface in the collection Hierarchy. Moreover, it represents a group of objects (elements). The collection either no duplicates or duplicates also, ordered and unordered.

• List – is an ordered Collection that may include duplicate elements. It has the following operations: Positional access, Search, Iteration, and Range-view.

• Set – is a collection that doesn’t contain any duplicate elements. It represents the mathematical set abstraction. It has the following implementations: HashSet, TreeSet, and LinkedHashSet.

• Map – is an unordered collection that associates a collection of element values with a set of keys. A map doesn’t contain duplicate keys. It represents the mathematical function abstraction. It has the following implementations: HashMap, TreeMap, and LinkedHashMap.

• ArrayList – is similar to Array but in ArrayList you don’t have to provide an initial size. Also, you can easily create object collections of your defined classes.

• LinkedList – is an implementation of List interface.You don’t have to initialize the size of the list. Linked list is a linear data structure where each element is separate object.

• HashMap – The order of the keys can be sorted but is in definite if it will retain the order.

• TreeMap – The order of the keys can be sorted and will retain in order.

2.

Write the output of the code.

Hello

Java

Learn

World

Hello

Java

Learn

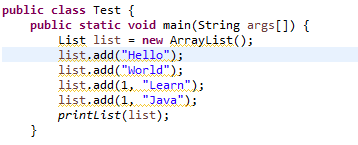
World

Hello

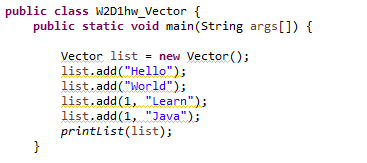
Java

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---LinkedList allows you to easily insert/delete anywhere in the structure while ArrayList is a list



---ArrayList is not synchronized and Vector is synchronized.

3.

**Output:**

Hello

Learn

4.

1. Compile and run well, and output 3