Quiz 07

Due Oct 21 at 12pm **Points** 10 **Questions** 10 **Time Limit** None

Instructions

There is no time limit, but you may only make one submission.

Attempt History

	Attempt	Time	Score
LATEST	Attempt 1	29 minutes	10 out of 10

Score for this quiz: **10** out of 10
Submitted Oct 17 at 1:14am
This attempt took 29 minutes.

Question 1

1 / 1 pts

A type of collection that normally allows items to be added only to one end and removed only from the other end is called a _____ .

- list
- set
- stack
- queue

Correct!

Question 2

1 / 1 pts

Select an appropriate expression to complete the following code segment, which is designed to print a message if the string stored in `name` is part of the

`players` collection.

```
Collection<String> players = new ArrayList<>();
// code to add elements to the collection here

if _____________________________________
{
   System.out.print(name + " is one of the players in the collection.");
}
```

- (players.equals(name))
- Correct! (players.contains(name))
- (players.indexOf(name))
- (players.search(name))

Question 3

1 / 1 pts

Which of the following statements about manipulating objects in a map is **NOT** correct?

- Use the `get()` method to retrieve a value from the map.
- Correct! Use the `add()` method to add a new element to the map.
- Use the `remove()` method to remove a value from the map.
- Use the `keySet()` method to get the set of keys for the map.

Question 4

1 / 1 pts

The term ____ is used in computer science to describe an access pattern in which the elements are accessed in arbitrary order.

- sorted access
- sequential access

Correct!

- (•) random access
- arbitrary access

Question 5

1 / 1 pts

Select an appropriate declaration to complete the following code segment, which is designed to read strings from standard input and display them in increasing alphabetical order, excluding any duplicates.

```
_____________________________________
Scanner input = new Scanner(System.in);
while (input.hasNext())
{
  words.add(input.next());
}
System.out.print(words);
```

- `LinkedList<String> words = new LinkedList<>();`
- `Set<String> words = new Set<>();`
- `Set<String> words = new HashSet<>();`

Correct!

- (•) `Set<String> words = new TreeSet<>();`

Question 6

1 / 1 pts

Complete the following code, which is intended to print out all key/value pairs in a map named `myMap` that contains `String` data for student IDs and names:

```
Map<String, String> myMap = new HashMap<>();
 . . .

Set<String> mapKeySet = myMap.keySet();
for (String aKey : mapKeySet)
{
   _____________________________;
   System.out.println("ID: " + aKey + "->" + name);
}
```

- `String name = myMap.next(aKey);`
- `String name = mapKeySet.next(aKey);`
- `String name = mapKeySet.get(aKey);`
- `String name = myMap.get(aKey);`

Correct!

Question 7

1 / 1 pts

Rather than storing values in an array, a linked list uses a sequence of ____.

- indexes
- elements
- accessors
- nodes

Correct!

Question 8

1 / 1 pts

Which of the following statements about stacks is correct?

- A stack implements first-in, first-out retrieval.

- A stack stores elements in sorted order.

Correct!

- (•) A stack implements last-in, first-out retrieval.
- A stack implements random retrieval.

Question 9

1 / 1 pts

Each nodes of a(n) _____ linked list stores two links: one to the next element; and one to the previous element.

- singly
- randomly
- array

Correct!

- (•) doubly

Question 10

1 / 1 pts

Which of the following statements about the `TreeSet` class is **NOT** correct?

- To use a `TreeSet`, it must be possible to compare the elements.
- Elements are stored in sorted order.
- Elements are stored in nodes.

Correct!

- (•) Elements are arranged in linear fashion.

Quiz Score: **10** out of 10