

Q:-1 What is the purpose of the Collections Framework?

- A.To provide a unified architecture for representing and manipulating collections
- B.To provide a way to create arrays
- C.To define primitive data types
- D.To handle exceptions

Ans:-A.

2:-Which interface in the Java Collections Framework represents an ordered collection of elements that can contain duplicate values?

- A. `Collection`
- B. `Map`
- C. `Set`
- D. `List`

Ans:-D

Q:-3 What is the primary difference between a `List` and a `Set` in the Java Collections Framework?

- A. A `Set` allows duplicate elements, while a `List` does not
- B. A `List` is unmodifiable, while a `Set` is modifiable
- C. A `List` allows duplicate elements, while a `Set` does not
- D. A `Set` is indexed, while a `List` is not

Answer: Option C

Q:-4 Which class is typically used to implement a `List` in the Java Collections Framework?

- A. `HashMap`
- B. `ArrayList`
- C. `LinkedList`
- D. None of These

Answer: Option B

Q:-5 In the Java Collections Framework, which interface extends the `List` interface to provide more efficient insertions and deletions in the middle of the list?

- A. `Map`
- B. `Set`
- C. `Deque`
- D. `Queue`

Answer: Option C

Q:-6 What is the purpose of the `Map` interface in the Java Collections Framework?

- A. To store a collection of objects
- B. To provide a stack data structure
- C. To store unique elements
- D. To store key-value pairs

Answer: Option D

Q:-7 Which class is typically used to implement a `Map` in the Java Collections Framework?

- A. `HashMap`
- B. `ArrayList`
- C. `HashSet`
- D. `LinkedList`

Answer: Option A

Q:- 8 What is the primary difference between a `HashMap` and a `TreeMap` in the Java Collections Framework?

- A. A `TreeMap` uses a linked list to store elements
- B. A `HashMap` is synchronized, while a `TreeMap` is not
- C. A `TreeMap` allows duplicate keys, while a `HashMap` does not
- D. A `HashMap` does not maintain order, while a `TreeMap` does

Answer: Option D

Q:-9 In the Java Collections Framework, which interface represents a collection of unique elements with no duplicates?

- A. `List`
- B. `Map`
- C. `Set`
- D. `Collection`

Answer: Option C

Q:-10 Which class is typically used to implement a `Set` in the Java Collections Framework?

- A. `HashMap`
- B. `HashSet`
- C. `LinkedList`
- D. None of These

Answer: Option B

Q:-11 What is the primary difference between a `HashSet` and a `LinkedHashSet` in the Java Collections Framework?

- A. A `HashSet` uses a tree structure to store elements
- B. A `LinkedHashSet` is synchronized, while a `HashSet` is not
- C. A `LinkedHashSet` maintains insertion order, while a `HashSet` does not
- D. A `HashSet` allows duplicate elements, while a `LinkedHashSet` does not

Answer: Option C

Q:-12 Which interface in the Java Collections Framework represents a collection of elements with no specific order?

- A. `List`
- B. `Map`
- C. `Collection`
- D. `Set`

Answer: Option D

Q:-13 What is the primary difference between a `Queue` and a `Deque` in the Java Collections Framework?

- A. A `Queue` represents a single-ended queue, while a `Deque` represents a double-ended queue
- B. A `Queue` allows duplicate elements, while a `Deque` does not
- C. A `Deque` is synchronized, while a `Queue` is not
- D. A `Queue` is indexed, while a `Deque` is not

Answer: Option A

Q:-14 Which class is typically used to implement a `Deque` in the Java Collections Framework?

- A. `LinkedList`
- B. `HashMap`
- C. `HashSet`
- D. `ArrayDeque`

Answer: Option D

Q:-15 In the Java Collections Framework, which class allows you to create a synchronized (thread-safe) collection?

- A. `ArrayList`
- B. `HashMap`
- C. `Collections`
- D. `HashSet`

Answer: Option C

Q:- 16 Which interface in the Java Collections Framework extends the `Set` interface and represents a collection of elements stored in a sorted order?

- A. `Map`
- B. `SortedSet`
- C. `Queue`
- D. None of These

Answer: Option B

Q:-17 What is the purpose of the `Comparator` interface in Java Collections Framework?

- A. It represents a generic collection
- B. It provides methods for hashing elements
- C. It defines a comparison function for ordering elements
- D. It represents a synchronized collection

Answer: Option C

Q:-18 Which class is typically used to implement a `SortedSet` in the Java Collections Framework?

- A. `HashSet`
- B. `LinkedHashSet`
- C. `ArrayList`
- D. `TreeSet`

Answer: Option D

Q:-19 In the Java Collections Framework, which interface represents a last-in, first-out (LIFO) stack of elements?

- A. `Stack`
- B. `Queue`
- C. `List`
- D. `Deque`

Answer: Option A

Q:-20 What is the primary difference between a `Stack` and a `Queue` in the Java Collections Framework?

- A. A `Queue` allows duplicate elements, while a `Stack` does not
- B. A `Stack` allows duplicate elements, while a `Queue` does not
- C. A `Queue` uses a LIFO order, while a `Stack` uses a FIFO order
- D. A `Stack` uses a LIFO (Last-In-First-Out) order, while a `Queue` uses a FIFO (First-In-First-Out) order

Answer: Option D

Q:-21 In Java, which method is used to add an element to a collection in the Java Collections Framework?

- A. `insert()`
- B. `put()`
- C. `add()`
- D. `append()`

Answer: Option C

Q:-22 What is the purpose of the `toArray()` method in the Java Collections Framework?

- A. It sorts the collection
- B. It converts a collection to an array
- C. It reverses the collection
- D. None of These

Answer: Option B

Q:-23 In the Java Collections Framework, which class provides methods to manipulate the size of a list and its elements?

- A. `Set`
- B. `ArrayList`
- C. `Collections`
- D. `List`

Answer: Option C

Q:-24 What is the purpose of the `Iterator` interface in the Java Collections Framework?

- A. It defines a comparison function for ordering elements
- B. It represents a synchronized collection
- C. It provides methods for hashing elements
- D. It provides a way to iterate over a collection's elements

Answer: Option D

Q:-25 Which method is used to remove all elements from a collection in the Java Collections Framework?

- A. `clear()`
- B. `removeAll()`
- C. `erase()`
- D. `purge()`

Answer: Option A

Q:-26 What is the purpose of the `Map.Entry` interface in the Java Collections Framework?

- A. It provides methods for hashing elements
- B. It represents a synchronized collection
- C. It defines a comparison function for ordering elements
- D. It represents a key-value pair in a map

Answer: Option D

Q:-27 In the Java Collections Framework, which method is used to obtain a synchronized (thread-safe) version of a collection?

- A. `synchronize()`
- B. `synchronizedList()`
- C. `Collections.synchronizedCollection()`
- D. `makeSynchronized()`

Answer: Option C

Q:-28 What is the primary difference between a `HashSet` and a `LinkedHashSet` in the Java Collections Framework?

- A. A `LinkedHashSet` allows duplicate elements, while a `HashSet` does not
- B. A `LinkedHashSet` maintains the insertion order of elements, while a `HashSet` does not
- C. A `HashSet` allows duplicate elements, while a `LinkedHashSet` does not

D. None of These

Answer: Option B

Q:-29 In Java, which method is used to obtain a synchronized (thread-safe) map from an existing map in the Java Collections Framework?

- A. `makeSynchronizedMap()`
- B. `synchronized()`
- C. `Collections.synchronizedMap()`
- D. `synchronizeMap()`

Answer: Option C

Q:-30 What is the purpose of the `Collections.reverse()` method in the Java Collections Framework?

- A. It removes all elements from a list
- B. It sorts a list in ascending order
- C. It adds elements to a list
- D. It reverses the order of elements in a list

Answer: Option D

Q:-31 Which of these method can be used to increase the capacity of ArrayList object manually?

- A. `Capacity()`
- B. `increaseCapacity()`
- C. `increasecapacity()`
- D. `ensureCapacity()`

Answer: Option D

Q:-32 What will be the output of the following Java code snippet?

```
import java.util.*;
class LinkedList
{
    public static void main(String args[])
```



```
{  
    LinkedList obj = new LinkedList();  
    obj.add("A");  
    obj.add("B");  
    obj.add("C");  
    obj.addFirst("D");  
    System.out.println(obj);  
}  
}
```

- A. [A, B, C]
- B. [D, B, C]
- C. [A, B, C, D]
- D. [D, A, B, C]

Answer: Option D

**Q:-33 What is Collection in Java?**

- A. A group of objects
- B. A group of classes
- C. A group of interfaces
- D. None of the mentioned

Answer: Option A

**Q:-34 Which of these methods can convert an object into a List?**

- A. SetList()
- B. ConvertList()
- C. singletonList()
- D. CopyList()

Answer: Option C

**Q:-35 What will be the output of the following Java program?**

```
import java.util.*;  
class Maps
```

```
{  
    public static void main(String args[])  
    {  
        HashMap obj = new HashMap();  
        obj.put("A", new Integer(1));  
        obj.put("B", new Integer(2));  
        obj.put("C", new Integer(3));  
        System.out.println(obj.get("B"));  
    }  
}
```

- A. 1
- B. 2
- C. 3
- D. null

Answer: Option B

**Q:-36 What is the premise of equality for IdentityHashMap?**

- A. Reference equality
- B. Name equality
- C. Hashcode equality
- D. Length equality

Answer: Option A

**Q:-37 Which of these is static variable defined in Collections?**

- A. EMPTY\_SET
- B. EMPTY\_LIST
- C. EMPTY\_MAP
- D. All of the mentioned

Answer: Option D

**Q:-38 Which of these methods is used to add elements in vector at specific location?**

- A. add()
- B. set()
- C. AddElement()
- D. addElement()

Answer: Option D

**Q:-39 What will be the output of the following Java program?**

```
import java.util.*;
class Collection_Algos
{
    public static void main(String args[])
    {
        LinkedList list = new LinkedList();
        list.add(new Integer(2));
        list.add(new Integer(8));
        list.add(new Integer(5));
        list.add(new Integer(1));
        Iterator i = list.iterator();
        Collections.reverse(list);
        Collections.sort(list);
        while(i.hasNext())
            System.out.print(i.next() + " ");
    }
}
```

- A. 2 8 5 1
- B. 1 5 8 2
- C. 1 2 5 8
- D. 2 1 8 5

Answer: Option C

**Q:-40 What is the difference between Queue and Stack?**

- A. Stack is LIFO; Queue is FIFO
- B. Queue is LIFO; Stack is FIFO
- C. Stack and Queue is FIFO
- D. Stack and Queue is LIFO

Answer: Option A

Q:-41 What will be the output of the following Java code?

```
import java.util.*;
class Bitset
{
    public static void main(String args[])
    {
        BitSet obj1 = new BitSet(5);
        BitSet obj2 = new BitSet(10);
        for (int i = 0; i < 5; ++i)
            obj1.set(i);
        for (int i = 3; i < 13; ++i)
            obj2.set(i);
        obj1.and(obj2);
        System.out.print(obj1);
    }
}
```

- A. {0, 1}
- B. {2, 4}
- C. {3, 4}
- D. {3, 4, 5}

Answer: Option C

Q:-42 What are the use of front and rear pointers in CircularQueue implementation?

- A. Front pointer points to first element; rear pointer points to the last element

- B. Rear pointer points to first element; front pointer points to the last element
- C. Front and rear pointers point to the first element
- D. Front pointer points to the first element; rear pointer points to null object

Answer: Option C

**Q:-43 Which of the below is not a subinterface of Queue?**

- A. BlockingQueue
- B. BlockingDeque
- C. TransferQueue
- D. None of These

Answer: Option B

**Q:-44 Which of these method is used to reduce the capacity of an ArrayList object?**

- A. trim()
- B. trimSize()
- C. trimToSize()
- D. trimToSize()

Answer: Option D

**Q:-45 How to sort elements of ArrayList?**

- A. Collection.sort(listObj);
- B. Collections.sort(listObj);
- C. listObj.sort();
- D. Sorter.sortAsc(listObj);

Answer: Option B

**Q:-46 Which of these packages contain all the collection classes?**

- A. java.lang
- B. java.util
- C. java.net
- D. java.awt

Answer: Option B

Q:-47 Which of these methods can be used to obtain set of all keys in a map?

- A. getAll()
- B. getKeys()
- C. keyall()
- D. keySet()

Answer: Option D

Q:-48 Which of these methods are member of Remote class?

- A. checkIP()
- B. addLocation()
- C. AddServer()
- D. None of the mentioned

Answer: Option D

Q:-49 Which of these method Map class is used to obtain an element in the map having specified key?

- A. search()
- B. get()
- C. set()
- D. look()

Answer: Option B

Q:-50 What is the name of a data member of class Vector which is used to store a number of elements in the vector?

- A. length
- B. elements
- C. elementCount
- D. capacity

Answer: Option C

**Q:-51 What will be the output of the following Java program?**

```
import java.util.*;
class Maps
{
    public static void main(String args[])
    {
        HashMap obj = new HashMap();
        obj.put("A", new Integer(1));
        obj.put("B", new Integer(2));
        obj.put("C", new Integer(3));
        System.out.println(obj.keySet());
    }
}
```

- A. [A, B, C]
- B. {A, B, C}
- C. {1, 2, 3}
- D. [1, 2, 3]

Answer: Option A

**Q:-52 What will be the output of the following Java code?**

```
import java.util.*;
class date
{
    public static void main(String args[])
    {
```

```
        Date obj = new Date();  
        System.out.print(obj);  
    }  
}
```

- A. Prints Present Date
- B. Runtime Error
- C. Any Garbage Value
- D. Prints Present Time & Date

Answer: Option D

Q:-53 What is the worst case complexity of accessing an element in ArrayList?

- A.  $O(n)$
- B.  $O(1)$
- C.  $O(n \log n)$
- D.  $O(2)$

Answer: Option B

Q:-54 Which of these standard collection classes implements a dynamic array?

- A. AbstractList
- B. LinkedList
- C. ArrayList
- D. AbstractSet

Answer: Option C

Q:-55 What is the correct method used to insert and delete items from the queue?

- A. push and pop
- B. enqueue and dequeue
- C. enqueue and peek



D. add and remove

Answer: Option B

Q:-56 Which of these standard collection classes implements all the standard functions on list data structure?

A. Array

B. LinkedList

C. HashSet

D. AbstractSet

Answer: Option A

Q:-57 What happens if two threads simultaneously modify TreeSet?

A. ConcurrentModificationException is thrown

B. Both threads can perform action successfully

C. FailFastException is thrown

D. IteratorModificationException is thrown

Answer: Option A

Q:-59 What will be the output of the following Java code snippet?

```
public class Test
{
    public static void main(String[] args)
    {
        Set s = new HashSet();
        s.add(new Long(10));
        s.add(new Integer(10));
        for(Object object : s)
        {
            System.out.println("test - "+object);
        }
    }
}
```

```

    }
}
A. Test - 10
   Test - 10
B. Test - 10
C. Runtime Exception
D. Compilation Failure

```

Answer: Option A

Q:-60 Which of these is the interface of legacy?

```

A. Map
B. Enumeration
C. HashMap
D. Hashtable

```

Answer: Option B

Q:-61 What will be the output of the following Java code?

```

import java.util.*;
class hashtable
{
    public static void main(String args[])
    {
        Hashtable obj = new Hashtable();
        obj.put("A", new Integer(3));
        obj.put("B", new Integer(2));
        obj.put("C", new Integer(8));
        System.out.print(obj.contains(new Integer(5)));
    }
}

```

A. 0

- B. 1
- C. true
- D. false

Answer: Option D

Which of the below is not an implementation of List interface?

- A. RoleUnresolvedList
- B. Stack
- C. AttibuteList
- D. SessionList

Answer: Option D

Q:-62 While finding the correct location for saving key value pair, how many times the key is hashed?

- A. 1
- B. 2
- C. 3
- D. unlimited till bucket is found

Answer: Option B

Q:-63 Which of these is a Basic interface that all other interface inherits?

- A. Set
- B. Array
- C. List
- D. Collection

Answer: Option D

Q:-64 Which of these is a method of ListIterator used to obtain index of previous element?

- A. previous()
- B. previousIndex()

- C. back()
- D. goBack()

Answer: Option B

Q:-65 What will be the output of the following Java program?

```
import java.util.*;
class ArrayList
{
    public static void main(String args[])
    {
        ArrayList obj = new ArrayList();
        obj.add("A");
        obj.add("B");
        obj.add("C");
        obj.add(1, "D");
        System.out.println(obj);
    }
}
```

- A. [A, B, C, D]
- B. [A, D, B, C]
- C. [A, D, C]
- D. [A, B, C]

Answer: Option B

Q:-66 What will be the output of the following Java program?

```
import java.util.*;
class Maps
{
    public static void main(String args[])
    {
```

```
        TreeMap obj = new TreeMap();  
        obj.put("A", new Integer(1));  
        obj.put("B", new Integer(2));  
        obj.put("C", new Integer(3));  
        System.out.println(obj.entrySet());  
    }  
}
```

- A. [A, B, C]
- B. [1, 2, 3]
- C. {A=1, B=2, C=3}
- D. [A=1, B=2, C=3]

Answer: Option D

Q:-67 Which of these method is used to calculate number of bits required to hold the BitSet object?

- A. size()
- B. length()
- C. indexes()
- D. numberOfBits()

Answer: Option B

Q:-68 Which of these Exceptions is thrown by remote method?

- A. RemoteException
- B. InputOutputException
- C. RemoteAccessException
- D. RemoteInputOutputException

Answer: Option A

Q:-69 Which of these class object has an architecture similar to that of array?

- A. Bitset
- B. Map

- C. Hashtable
- D. All of the mentioned

Answer: Option A

**Q:-70** Which of these method of Array class is used sort an array or its subset?

- A. binarysort()
- B. bubblesort()
- C. sort()
- D. insert()

Answer: Option C

**Q:-71** What will be the output of the following Java code?

```
import java.util.*;
class hashtable
{
    public static void main(String args[])
    {
        Hashtable obj = new Hashtable();
        obj.put("A", new Integer(3));
        obj.put("B", new Integer(2));
        obj.put("C", new Integer(8));
        System.out.print(obj.toString());
    }
}
```

- A. {C=8, B=2}
- B. [C=8, B=2]
- C. {A=3, C=8, B=2}
- D. [A=3, C=8, B=2]

Answer: Option C

**Q:-72** Which of these is the interface of legacy is implemented by Hashtable and Dictionary classes?

- A. Map
- B. Enumeration
- C. HashMap
- D. Hashtable

Answer: Option A

**Q:-73** What will be the output of the following Java program?

```
import java.util.*;
class Array
{
    public static void main(String args[])
    {
        int array[] = new int [5];
        for (int i = 5; i > 0; i--)
            array[5 - i] = i;
        Arrays.sort(array);
        for (int i = 0; i < 5; ++i)
            System.out.print(array[i]);
    }
}
```

- A. 12345
- B. 54321
- C. 1234
- D. 5432

Answer: Option A

**Q:-74** What is the unique feature of LinkedHashSet?

- A. It is not a valid class
- B. It maintains the insertion order and guarantees uniqueness

- C. It provides a way to store key values with uniqueness
- D. The elements in the collection are linked to each other

Answer: Option B

**Q:-75** What will be the output of the following Java program?

```
import java.util.*;
class ArrayList
{
    public static void main(String args[])
    {
        ArrayList obj1 = new ArrayList();
        ArrayList obj2 = new ArrayList();
        obj1.add("A");
        obj1.add("B");
        obj2.add("A");
        obj2.add(1, "B");
        System.out.println(obj1.equals(obj2));
    }
}
```

- A. 0
- B. 1
- C. true
- D. false

Answer: Option C

**Q:-76** What will be the output of the following Java program?

```
import java.util.*;
class Maps
{
    public static void main(String args[])
```



```

{
    HashMap obj = new HashMap();
    obj.put("A", new Integer(1));
    obj.put("B", new Integer(2));
    obj.put("C", new Integer(3));
    System.out.println(obj);
}
}

```

- A. {A 1, B 1, C 1}
- B. {A, B, C}
- C. {A-1, B-1, C-1}
- D. {A=1, B=2, C=3}

Answer: Option D

**Q:-77** Which of these class object uses the key to store value?

- A. Dictionary
- B. Map
- C. Hashtable
- D. All of the mentioned

Answer: Option D

**Q:-78** Which of these class object can be used to form a dynamic array?

- A. ArrayList
- B. Map
- C. Vector
- D. ArrayList & Vector

Answer: Option D

**Q:-79** What will be the output of the following Java program?

```

import java.util.*;
class Collection_Algos

```

```

{
    public static void main(String args[])
    {
        LinkedList list = new LinkedList();
        list.add(new Integer(2));
        list.add(new Integer(8));
        list.add(new Integer(5));
        list.add(new Integer(1));
        Iterator i = list.iterator();
        Collections.reverse(list);
        while(i.hasNext())
            System.out.print(i.next() + " ");
    }
}

```

A. 2 8 5 1

B. 1 5 8 2

C. 2

D. 2 1 8 5

Answer: Option B

**Q:-80** What will be the output of the following Java code?

```

import java.util.*;
class vector
{
    public static void main(String args[])
    {
        Vector obj = new Vector(4,2);
        obj.addElement(new Integer(3));
        obj.addElement(new Integer(2));
        obj.addElement(new Integer(5));
        System.out.println(obj.elementAt(1));
    }
}

```

```
    }  
}
```

- A. 0
- B. 3
- C. 2
- D. 5

Answer: Option C

**Q:-81** What will be the output of the following Java code?

```
import java.util.*;  
class stack  
{  
    public static void main(String args[])  
    {  
        Stack obj = new Stack();  
        obj.push(new Integer(3));  
        obj.push(new Integer(2));  
        obj.pop();  
        obj.push(new Integer(5));  
        System.out.println(obj);  
    }  
}
```

- A. [3, 5]
- B. [3, 2]
- C. [3, 2, 5]
- D. [3, 5, 2]

Answer: Option A

**Q:-82** Which of these methods can randomize all elements in a list?

- A. rand()
- B. randomize()

- C. shuffle()
- D. ambiguous()

Answer: Option C

**Q:-83** Which of these methods can be used to obtain a static array from an ArrayList object?

- A. Array()
- B. covertArray()
- C. toArray()
- D. covertToArray()

Answer: Option C

**Q:-84** Which of these method is used to insert value and its key?

- A. put()
- B. set()
- C. insertElement()
- D. addElement()

Answer: Option A

**Q:-85** Which of these method is used to remove all keys/values pair from the invoking map?

- A. delete()
- B. remove()
- C. clear()
- D. removeAll()

Answer: Option B

**Q:-86** What will be the output of the following Java program?

```
import java.util.*;  
class Collection_iterators
```

```

{
    public static void main(String args[])
    {
        ListIterator a = list.listIterator();
        if(a.previousIndex() != -1)
            while(a.hasNext())
                System.out.print(a.next() + " ");
        else
            System.out.print("EMPTY");
    }
}

```

- A. 0
- B. 1
- C. -1
- D. EMPTY

Answer: Option D

**Q:-87** What will be the output of the following Java program?

```

import java.lang.reflect.*;
class Additional_packages
{
    public static void main(String args[])
    {
        try
        {
            Class c = Class.forName("java.awt.Dimension");
            Method methods[] = c.getMethods();
            for (int i = 0; i < methods.length; i++)
                System.out.println(methods[i]);
        }
        catch (Exception e)

```

```

        {
            System.out.print("Exception");
        }
    }
}

```

- A. Program prints all the constructors of 'java.awt.Dimension' package
- B. Program prints all the methods of 'java.awt.Dimension' package
- C. Program prints all the data members of 'java.awt.Dimension' package
- D. program prints all the methods and data member of 'java.awt.Dimension' package

Answer: Option B

**Q:-88** What happens if we put a key object in a HashMap which exists?

- A. The new object replaces the older object
- B. The new object is discarded
- C. The old object is removed from the map
- D. It throws an exception as the key already exists in the map

Answer: Option A

**Q:-89** Which of these interface handle sequences?

- A. Set
- B. List
- C. Comparator
- D. Collection

Answer: Option B

**Q:-90** How to externally synchronize hashmap?

- A. `HashMap.synchronize(HashMap a);`
- B. `HashMap a = new HashMap();`  
`a.synchronize();`
- C. `Collections.synchronizedMap(new HashMap<String, String>());`
- D. `Collections.synchronize(new HashMap<String, String>());`

Answer: Option C

**Q:-91** Set has contains(Object o) method.

- A. True
- B. False

Answer: Option A

**Q:-92** What is the relation between hashset and hashmap?

- A. HashSet internally implements HashMap
- B. HashMap internally implements HashSet
- C. HashMap is the interface; HashSet is the concrete class
- D. HashSet is the interface; HashMap is the concrete class

Answer: Option A

**Q:-93** Which of these return type of hasNext() method of an iterator?

- A. Integer
- B. Double
- C. Boolean
- D. Collections Object

Answer: Option C

**Q:-94** Which of these is an incorrect form of using method max() to obtain a maximum element?

- A. max(Collection c)
- B. max(Collection c, Comparator comp)
- C. max(Comparator comp)
- D. max(List c)

Answer: Option C

**Q:-95** Which of these methods is used to obtain an iterator to the start of collection?

- A. start()

- B. begin()
- C. iteratorSet()
- D. iterator()

Answer: Option D

**Q:-96** What will be the output of the following Java program?

```
import java.util.*;
class Output
{
    public static void main(String args[])
    {
        TreeSet t = new TreeSet();
        t.add("3");
        t.add("9");
        t.add("1");
        t.add("4");
        t.add("8");
        System.out.println(t);
    }
}
```

- A. [1, 3, 5, 8, 9]
- B. [3, 4, 1, 8, 9]
- C. [9, 8, 4, 3, 1]
- D. [1, 3, 4, 8, 9]

Answer: Option D

**Q:-97** What will be the output of the following Java program?

```
import java.util.*;
class Array
{
```



```

public static void main(String args[])
{
    int array[] = new int [5];
    for (int i = 5; i > 0; i--)
        array[5-i] = i;
    Arrays.fill(array, 1, 4, 8);
    for (int i = 0; i < 5 ; i++)
        System.out.print(array[i]);
}
}

```

- A. 12885
- B. 12845
- C. 58881
- D. 54881

Answer: Option C

**Q:-98** What will be the output of the following Java code?

```

import java.util.*;
class hashtable
{
    public static void main(String args[])
    {
        Hashtable obj = new Hashtable();
        obj.put("A", new Integer(3));
        obj.put("B", new Integer(2));
        obj.put("C", new Integer(8));
        obj.clear();
        System.out.print(obj.size());
    }
}

```

- A. 0

- B. 1
- C. 2
- D. 3

Answer: Option A

**Q:-99** Which of these methods is used to retrieve the elements in properties object at specific location?

- A. get()
- B. Elementat()
- C. ElementAt()
- D. getProperty()

Answer: Option D

**Q:-100** Set has contains(Object o) method.

- A. True
- B. False

Answer: Option A

**Q:-101** What is the relation between hashset and hashmap?

- A. HashSet internally implements HashMap
- B. HashMap internally implements HashSet
- C. HashMap is the interface; HashSet is the concrete class
- D. HashSet is the interface; HashMap is the concrete class

Answer: Option A

**Q:-102** Which of these return type of hasNext() method of an iterator?

- A. Integer
- B. Double
- C. Boolean
- D. Collections Object

Answer: Option C

**Q:-103** Which of these methods is used to obtain an iterator to the start of collection?

- A. start()
- B. begin()
- C. iteratorSet()
- D. iterator()

Answer: Option D

**Q:-104** What will be the output of the following Java program?

```
import java.util.*;
class Output
{
    public static void main(String args[])
    {
        TreeSet t = new TreeSet();
        t.add("3");
        t.add("9");
        t.add("1");
        t.add("4");
        t.add("8");
        System.out.println(t);
    }
}
```

- A. [1, 3, 5, 8, 9]
- B. [3, 4, 1, 8, 9]
- C. [9, 8, 4, 3, 1]
- D. [1, 3, 4, 8, 9]

Answer: Option D

**Q:-105** What will be the output of the following Java program?

```

import java.util.*;
class Array
{
    public static void main(String args[])
    {
        int array[] = new int [5];
        for (int i = 5; i > 0; i--)
            array[5-i] = i;
        Arrays.fill(array, 1, 4, 8);
        for (int i = 0; i < 5 ; i++)
            System.out.print(array[i]);
    }
}

```

- A. 12885
- B. 12845
- C. 58881
- D. 54881

Answer: Option C

**Q:-106** What will be the output of the following Java code?

```

import java.util.*;
class hashtable
{
    public static void main(String args[])
    {
        Hashtable obj = new Hashtable();
        obj.put("A", new Integer(3));
        obj.put("B", new Integer(2));
        obj.put("C", new Integer(8));
        obj.clear();
        System.out.print(obj.size());
    }
}

```

```
    }  
}
```

- A. 0
- B. 1
- C. 2
- D. 3

Answer: Option A

**Q:-107** Which of these methods is used to retrieve the elements in properties object at specific location?

- A. get()
- B. Elementat()
- C. ElementAt()
- D. getProperty()

Answer: Option D

**Q:-108** Which of these method is used add an element and corresponding key to a map?

- A. put()
- B. set()
- C. redo()
- D. add()

Answer: Option A

**Q:-109** How to remove duplicates from List?

- A. `HashSet<String> listToSet = new HashSet<String>(duplicateList);`
- B. `HashSet<String> listToSet = duplicateList.toSet();`
- C. `HashSet<String> listToSet = Collections.convertToSet(duplicateList);`
- D. `HashSet<String> listToSet = duplicateList.getSet();`

Answer: Option A

110 Which of these iterators can be used only with List?

- A. Setiterator
- B. ListIterator
- C. Literator
- D. None of the mentioned

Answer: Option B

111 Is hashmap an ordered collection.

- A. True
- B. False

Answer: Option B

112 How is Arrays.asList() different than the standard way of initialising List?

- A. Both are same
- B. Arrays.asList() throws compilation error
- C. Arrays.asList() returns a fixed length list and doesn't allow to add or remove elements
- D. We cannot access the list returned using Arrays.asList()

Answer: Option C

113 What is difference between dequeue() and peek() function of java?

- A. dequeue() and peek() remove and return the next time in line
- B. dequeue() and peek() return the next item in line
- C. dequeue() removes and returns the next item in line while peek() returns the next item in line
- D. peek() removes and returns the next item in line while dequeue() returns the next item in line

Answer: Option C

114 Which of these method of ArrayList class is used to obtain present size of an object?

- A. size()

- B. length()
- C. index()
- D. capacity()

Answer: Option A

115 Which of these are legacy classes?

- A. Stack
- B. Hashtable
- C. Vector
- D. All of the mentioned

Answer: Option D

116 What are the initial capacity and load factor of HashSet?

- A. 10, 1.0
- B. 32, 0.75
- C. 16, 0.75
- D. 32, 1.0

Answer: Option C

117 What will be the output of the following Java program?

```
import java.util.*;
class Collection_Algos
{
    public static void main(String args[])
    {
        LinkedList list = new LinkedList();
        list.add(new Integer(2));
        list.add(new Integer(8));
        list.add(new Integer(5));
        list.add(new Integer(1));
        Iterator i = list.iterator();
```

```

while(i.hasNext())
    System.out.print(i.next() + " ");
}
}

```

A. 2 8 5 1

B. 1 5 8 2

C. 2

D. 2 1 8 5

Answer: Option A

118 What will be the output of the following Java program?

```

import java.util.*;
class Output
{
    public static void main(String args[])
    {
        HashSet obj = new HashSet();
        obj.add("A");
        obj.add("B");
        obj.add("C");
        System.out.println(obj + " " + obj.size());
    }
}

```

A. ABC 3

B. [A, B, C] 3

C. ABC 2

D. [A, B, C] 2

Answer: Option B

119 Do we have get(Object o) method in HashSet.

A. True



B. False

Answer: Option B

120 Which of these standard collection classes implements a linked list data structure?

A. AbstractList

B. LinkedList

C. HashSet

D. AbstractSet

Answer: Option B

121 Which of these methods deletes all the elements from invoking collection?

A. clear()

B. reset()

C. delete()

D. refresh()

Answer: Option A

122 What does Collections.emptySet() return?

A. Immutable Set

B. Mutable Set

C. The type of Set depends on the parameter passed to the emptySet() method

D. Null object

Answer: Option A

123 What will be the output of the following Java code snippet?

```
public class Demo
{
    public static void main(String[] args)
    {
```

```
Map sampleMap = new TreeMap();
sampleMap.put(1, null);
sampleMap.put(5, null);
sampleMap.put(3, null);
sampleMap.put(2, null);
sampleMap.put(4, null);

System.out.println(sampleMap);
}
}
A. {1=null, 2=null, 3=null, 4=null, 5=null}
B. {5=null}
C. Exception is thrown
D. {1=null, 5=null, 3=null, 2=null, 4=null}
Answer: Option A
```

124 What will be the output of the following Java code?

```
import java.util.*;
class vector
{
    public static void main(String args[])
    {
        Vector obj = new Vector(4,2);
        obj.addElement(new Integer(3));
        obj.addElement(new Integer(2));
        obj.addElement(new Integer(5));
        System.out.println(obj.capacity());
    }
}
A. 2
B. 3
```

C. 4

D. 6

Answer: Option C

125 Which of these object stores association between keys and values?

A. Hash table

B. Map

C. Array

D. String

Answer: Option B

126 What will be the output of the following Java program?

```
import java.util.*;
class Collection_iterators
{
    public static void main(String args[])
    {
        LinkedList list = new LinkedList();
        list.add(new Integer(2));
        list.add(new Integer(8));
        list.add(new Integer(5));
        list.add(new Integer(1));
        Iterator i = list.iterator();
        Collections.reverse(list);
        while(i.hasNext())
            System.out.print(i.next() + " ");
    }
}
```

A. 2 8 5 1

B. 1 5 8 2

C. 2

D. 2 1 8 5

Answer: Option B

127 Which of these methods can be used to search an element in a list?

A. find()

B. sort()

C. get()

D. binaryserach()

Answer: Option D

128 How can we remove an object from ArrayList?

A. remove() method

B. using Iterator

C. remove() method and using Iterator

D. delete() method

Answer: Option C

129 What will be the output of the following Java program?

```
import java.util.*;
class Output
{
    public static void main(String args[])
    {
        ArrayList obj = new ArrayList();
        obj.add("A");
        obj.ensureCapacity(3);
        System.out.println(obj.size());
    }
}
```

A. 1

B. 2

C. 3

D. 4

Answer: Option A

130 What will be the output of the following Java program?

```
import java.util.*;
class Array
{
    public static void main(String args[])
    {
        int array[] = new int [5];
        for (int i = 5; i > 0; i--)
            array[5 - i] = i;
        Arrays.sort(array);
        for (int i = 0; i < 5; ++i)
            System.out.print(array[i]);
    }
}
```

A. 12345

B. 54321

C. 1234

D. 5432

Answer: Option A

131 Which of these methods can be used to move to next element in a collection?

A. next()

B. move()

C. shuffle()

D. hasNext()

Answer: Option A

134 Which of this method is used to change an element in a LinkedList Object?

- A. change()
- B. set()
- C. redo()
- D. add()

Answer: Option B

135 What will be the output of the following Java program?

```
import java.util.*;
class LinkedList
{
    public static void main(String args[])
    {
        LinkedList obj = new LinkedList();
        obj.add("A");
        obj.add("B");
        obj.add("C");
        obj.removeFirst();
        System.out.println(obj);
    }
}
```

- A. [A, B]
- B. [B, C]
- C. [A, B, C, D]
- D. [A, B, C]

Answer: Option B

136 What will be the output of the following Java code?

```
import java.util.*;
```

```

class vector
{
    public static void main(String args[])
    {
        Vector obj = new Vector(4,2);
        obj.addElement(new Integer(3));
        obj.addElement(new Integer(2));
        obj.addElement(new Integer(5));
        obj.removeAll(obj);
        System.out.println(obj.isEmpty());
    }
}

```

- A. 0
- B. 1
- C. true
- D. false

Answer: Option C

137 What will be the output of the following Java code?

```

import java.util.*;
class hashtable
{
    public static void main(String args[])
    {
        Hashtable obj = new Hashtable();
        obj.put("A", new Integer(3));
        obj.put("B", new Integer(2));
        obj.put("C", new Integer(8));
        obj.remove(new String("A"));
        System.out.print(obj);
    }
}

```

}

- A. {C=8, B=2}
- B. [C=8, B=2]
- C. {A=3, C=8, B=2}
- D. [A=3, C=8, B=2]

Answer: Option A

138 Which of these classes implements Set interface?

- A. ArrayList
- B. HashSet
- C. LinkedList
- D. DynamicList

Answer: Option B

139 Which of this interface is not a part of Java's collection framework?

- A. List
- B. Set
- C. SortedMap
- D. SortedList

Answer: Option D

140 Which of this method is used to make all elements of an equal to specified value?

- A. add()
- B. fill()
- C. all()
- D. set()

Answer: Option B

141 Which of these interface declares core method that all collections will have?



- A. set
- B. EventListner
- C. Comparator
- D. Collection

Answer: Option D

142 What is the difference between TreeSet and SortedSet?

- A. TreeSet is more efficient than SortedSet
- B. SortedSet is more efficient than TreeSet
- C. TreeSet is an interface; SortedSet is a concrete class
- D. SortedSet is an interface; TreeSet is a concrete class

Answer: Option D

143 Map implements collection interface?

- A. True
- B. False

Answer: Option B

144 What will be the output of the following Java program?

```
import java.util.*;
class Collection_Algos
{
    public static void main(String args[])
    {
        LinkedList list = new LinkedList();
        list.add(new Integer(2));
        list.add(new Integer(8));
        list.add(new Integer(5));
        list.add(new Integer(1));
        Iterator i = list.iterator();
        Collections.reverse(list);
```

```
Collections.shuffle(list);  
    while(i.hasNext())  
        System.out.print(i.next() + " ");  
    }  
}
```

- A. 2 8 5 1
- B. 1 5 8 2
- C. 1 2 5 8
- D. Any random order

Answer: Option D

145 What will be the output of the following Java code?

```
import java.util.*;  
class vector  
{  
    public static void main(String args[])  
    {  
        Vector obj = new Vector(4,2);  
        obj.addElement(new Integer(3));  
        obj.addElement(new Integer(2));  
        obj.addElement(new Integer(6));  
        obj.insertElementAt(new Integer(8), 2);  
        System.out.println(obj);  
    }  
}
```

- A. [3, 2, 6]
- B. [3, 2, 8]
- C. [3, 2, 6, 8]
- D. [3, 2, 8, 6]

Answer: Option D

146 Which of these methods sets every element of a List to a specified object?

- A. set()
- B. fill()
- C. Complete()
- D. add()

Answer: Option B

147 Which of these methods can be used to delete the last element in a LinkedList object?

- A. remove()
- B. delete()
- C. removeLast()
- D. deleteLast()

Answer: Option C

148 Which of these method is used to add an element to the start of a LinkedList object?

- A. add()
- B. first()
- C. AddFirst()
- D. addFirst()

Answer: Option D

149 What will be the output of the following Java code?

```
import java.util.*;
class properties
{
    public static void main(String args[])
    {
        Properties obj = new Properties();
        obj.put("AB", new Integer(3));
    }
}
```

```
        obj.put("BC", new Integer(2));
        obj.put("CD", new Integer(8));
        System.out.print(obj.keySet());
    }
}
```

- A. {AB, BC, CD}
- B. [AB, BC, CD]
- C. [3, 2, 8]
- D. {3, 2, 8}

Answer: Option B

150 Which of the below does not implement Map interface?

- A. HashMap
- B. Hashtable
- C. EnumMap
- D. Vector

Answer: Option D

151 Which of these classes provide implementation of map interface?

- A. ArrayList
- B. HashMap
- C. LinkedList
- D. DynamicList

Answer: Option B

152 Which of these methods is used to retrieve elements in BitSet object at specific location?

- A. get()
- B. Elementat()
- C. ElementAt()
- D. getProperty()

Answer: Option A

153 Which of these exceptions is thrown by remover() method?

- A. IOException
- B. SystemException
- C. ObjectNotFoundException
- D. IllegalStateException

Answer: Option D

154 Which of these method of HashSet class is used to add elements to its object?

- A. add()
- B. Add()
- C. addFirst()
- D. insert()

Answer: Option A

155 What will be the output of the following Java program?

```
import java.util.*;
class Array
{
    public static void main(String args[])
    {
        int array[] = new int [5];
        for (int i = 5; i > 0; i--)
            array[5 - i] = i;
        Arrays.sort(array);
        System.out.print(Arrays.binarySearch(array, 4));
    }
}
```

- A. 2
- B. 3

C. 4

D. 5

Answer: Option B

156 What will be the output of the following Java program?

```
class Output
{
    public static void main(String args[])
    {
        ArrayList obj = new ArrayList();
        obj.add("A");
        obj.add("D");
        obj.ensureCapacity(3);
        obj.trimToSize();
        System.out.println(obj.size());
    }
}
```

A. 1

B. 2

C. 3

D. 4

Answer: Option B

157 Which of this interface must contain a unique element?

A. Set

B. List

C. Array

D. Collection

Answer: Option A

158 What is the difference between length() and size() of ArrayList?

- A. length() and size() return the same value
- B. length() is not defined in ArrayList
- C. size() is not defined in ArrayList
- D. length() returns the capacity of ArrayList and size() returns the actual number of elements stored in the list

Answer: Option D

159 If the size of the array used to implement a circular queue is MAX\_SIZE. How rear moves to traverse inorder to insert an element in the queue?

- A. rear=(rear%1)+MAX\_SIZE
- B. rear=(rear+1)%MAX\_SIZE
- C. rear=rear+(1%MAX\_SIZE)
- D. rear=rear%(MAX\_SIZE+1)

Answer: Option B

160 What will be the output of the following Java program?

```
import java.util.*;
class Collection_iterators
{
    public static void main(String args[])
    {
        LinkedList list = new LinkedList();
        list.add(new Integer(2));
        list.add(new Integer(8));
        list.add(new Integer(5));
        list.add(new Integer(1));
        Iterator i = list.iterator();
        Collections.reverse(list);
        Collections.shuffle(list);
        i.next();
        i.remove();
    }
}
```

```
        while(i.hasNext())
            System.out.print(i.next() + " ");
    }
}
```

- A. 2 8 5
- B. 2 1 8
- C. 2 5 8
- D. 8 5 1

Answer: Option B

PriorityQueue is thread safe.

- A. True
- B. False

Answer: Option A

161 Which of these method is used to make a bit zero specified by the index?

- A. put()
- B. set()
- C. remove()
- D. clear()

Answer: Option D

162 Which of these is a method of class Date which is used to search whether object contains a date before the specified date?

- A. after()
- B. contains()
- C. before()
- D. compareTo()

Answer: Option C



163 Which of these is a class which uses String as a key to store the value in object?

- A. Array
- B. ArrayList
- C. Dictionary
- D. Properties

Answer: Option D

164 When two threads access the same ArrayList object what is the outcome of the program?

- A. Both are able to access the object
- B. ConcurrentModificationException is thrown
- C. One thread is able to access the object and second thread gets Null Pointer exception
- D. One thread is able to access the object and second thread will wait till control is passed to the second one

Answer: Option B

165 What will be the output of the following Java program?

```
import java.util.*;
class Output
{
    public static void main(String args[])
    {
        ArrayList obj = new ArrayList();
        obj.add("A");
        obj.add(0, "B");
        System.out.println(obj.size());
    }
}
```

- A. 0
- B. 1

C. 2

D. Any Garbage Value

Answer: Option C

166 Which data structure is used in Breadth First Traversal of a graph?

A. Stack

B. Queue

C. Array

D. Tree

Answer: Option B

167 Which of these classes is not part of Java's collection framework?

A. Maps

B. Array

C. Stack

D. Queue

Answer: Option A

MCQ on Packages

**168. What is a package in Java?**

- a) A collection of classes
- b) A collection of interfaces
- c) A collection of classes and interfaces
- d) A method of error handling

**Answer:** c) A collection of classes and interfaces

---

**169. Which keyword is used to define a package in Java?**

- a) import
- b) package

- c) namespace
- d) module

**Answer:** b) package

---

**170. What is the purpose of a package in Java?**

- a) To organize classes and interfaces
- b) To provide access control
- c) To avoid name conflicts
- d) All of the above

**Answer:** d) All of the above

---

**171. How do you import a package in Java?**

- a) include packageName;
- b) using packageName;
- c) import packageName;
- d) use packageName;

**Answer:** c) import packageName;

---

**172. Can a package contain sub-packages in Java?**

- a) Yes
- b) No

**Answer:** a) Yes

---

**173. Which package is automatically imported in all Java programs?**

- a) java.util
- b) java.io
- c) java.lang
- d) java.math

**Answer:** c) java.lang

---

**174. How do you import all classes of a package?**

- a) import packageName;
- b) import packageName.\*;
- c) use packageName.\*;

- d) include packageName.all;  
**Answer:** b) import packageName.\*;
- 

**175. What is the fully qualified name of a class?**

- a) The class name only
  - b) The package name followed by the class name
  - c) The import statement
  - d) None of the above
- Answer:** b) The package name followed by the class name
- 

**176. Which package contains the Scanner class?**

- a) java.io
  - b) java.util
  - c) java.lang
  - d) java.net
- Answer:** b) java.util
- 

**177. Which package contains classes for input and output operations?**

- a) java.io
  - b) java.util
  - c) java.lang
  - d) java.math
- Answer:** a) java.io
- 

**178. What is the syntax to create a package in Java?**

- a) package packageName;
  - b) create package packageName;
  - c) namespace packageName;
  - d) module packageName;
- Answer:** a) package packageName;
- 

**179. Can two packages have classes with the same name?**

- a) Yes

- b) No

**Answer:** a) Yes

---

**180. Which of the following is not part of the Java standard library?**

- a) java.util
- b) java.io
- c) java.graphics
- d) java.lang

**Answer:** c) java.graphics

---

**181. How do you use a class from another package without importing it?**

- a) Use the class name directly
- b) Use the fully qualified name of the class
- c) Use the import keyword
- d) You cannot use it

**Answer:** b) Use the fully qualified name of the class

---

**182. What is the java.sql package used for?**

- a) Handling math operations
- b) Handling database operations
- c) Handling file operations
- d) Handling networking

**Answer:** b) Handling database operations

---

**183. Can a package have private classes?**

- a) Yes
- b) No

**Answer:** a) Yes

---

**184. What is the use of CLASSPATH in Java?**

- a) It specifies the directory for Java libraries
- b) It specifies the location of compiled class files
- c) It specifies the location of package files

- d) All of the above

**Answer:** d) All of the above

---

**185. Which package contains classes for networking in Java?**

- a) java.util
- b) java.io
- c) java.net
- d) java.nio

**Answer:** c) java.net

---

**186. What is the use of the java.util package?**

- a) It contains utility classes like Scanner and ArrayList
- b) It is used for mathematical operations
- c) It provides input and output functionality
- d) It is for database connectivity

**Answer:** a) It contains utility classes like Scanner and ArrayList

Multithreading MCQ

**187. Which method is used to start a thread in Java?**

- a) run()
- b) execute()
- c) start()
- d) begin()

**Answer:** c) start()

---

**188. What is the default priority of a thread in Java?**

- a) 0
- b) 1
- c) 5
- d) 10

**Answer:** c) 5

---

**189. Which interface must a class implement to create a thread?**

- a) Cloneable
  - b) Runnable
  - c) Serializable
  - d) Comparable
- Answer:** b) Runnable
- 

**190. Which of these is not a state of a thread?**

- a) Running
- b) Waiting
- c) Blocked
- d) Ready

**Answer:** c) Blocked

---

**191. How can we stop a thread in Java?**

- a) By using the stop() method (deprecated)
  - b) By calling the thread's destroy() method
  - c) By using System.exit()
  - d) None of the above
- Answer:** a) By using the stop() method (deprecated)
- 

**192. Which of these methods is used to make a thread wait until it is notified?**

- a) sleep()
  - b) join()
  - c) wait()
  - d) notify()
- Answer:** c) wait()
- 

**193. What will happen if we call the run() method directly instead of start()?**

- a) A new thread will be created
  - b) It will throw an exception
  - c) The code will run in the current thread
  - d) It will execute parallelly
- Answer:** c) The code will run in the current thread
- 

**194. What does the `synchronized` keyword do in Java?**

- a) Allows multiple threads to access a method at once
  - b) Prevents thread interference and memory consistency errors
  - c) Speeds up thread execution
  - d) Stops all threads
- Answer:** b) Prevents thread interference and memory consistency errors
- 

**195. Which class is used to create a thread by extending it?**

- a) Thread
  - b) Runnable
  - c) Executor
  - d) Future
- Answer:** a) Thread
- 

**196. What happens if a thread goes to sleep by calling `Thread.sleep()`?**

- a) The thread releases all locks
  - b) The thread releases CPU but holds any locks it has
  - c) The thread remains running
  - d) The thread stops permanently
- Answer:** b) The thread releases CPU but holds any locks it has
- 

**197. How do you force one thread to wait for another thread to finish in Java?**

- a) `join()`
  - b) `sleep()`
  - c) `notify()`
  - d) `wait()`
- Answer:** a) `join()`
- 

**198. Which method checks whether a thread is alive?**

- a) `isActive()`
  - b) `isRunning()`
  - c) `isAlive()`
  - d) `isWorking()`
- Answer:** c) `isAlive()`
- 

**199. What is the purpose of the `yield()` method in Java threads?**

- a) It stops the thread permanently



- b) It pauses the thread to allow other threads of the same priority to execute
  - c) It terminates the thread
  - d) It resumes a paused thread
- Answer:** b) It pauses the thread to allow other threads of the same priority to execute
- 

**200. Which exception is thrown if the `sleep()` method is interrupted?**

- a) RuntimeException
  - b) InterruptedException
  - c) IllegalThreadStateException
  - d) None of the above
- Answer:** b) InterruptedException
- 

**201. What does the `notifyAll()` method do?**

- a) Notifies all waiting threads but only one can acquire the lock
  - b) Wakes up all threads waiting on the object's monitor
  - c) Stops all running threads
  - d) Resumes the current thread
- Answer:** b) Wakes up all threads waiting on the object's monitor
- 

**202. Which of the following is used to create a thread pool in Java?**

- a) Executors
  - b) Runnable
  - c) Thread
  - d) Callable
- Answer:** a) Executors
- 

**203. What is the main advantage of using thread pools?**

- a) Faster thread creation
  - b) Better thread control and resource management
  - c) Reduced code complexity
  - d) Avoids deadlocks automatically
- Answer:** b) Better thread control and resource management
- 

**204. What is a daemon thread in Java?**

- a) A thread with high priority
- b) A thread running in the background for supporting tasks

- c) A thread created using `new Thread()`
- d) A thread that cannot be stopped

**Answer:** b) A thread running in the background for supporting tasks

---

**205. Which method is used to check if the current thread is a daemon thread?**

- a) `isDaemon()`
- b) `isAlive()`
- c) `isRunning()`
- d) `isThread()`

**Answer:** a) `isDaemon()`

---

**206. Which class in Java supports the concept of a monitor?**

- a) `Thread`
  - b) `Object`
  - c) `Runnable`
  - d) `Executors`
- Answer:** b) `Object`
-