OOPJ CCEE Practice Quiz - 4 Total points 29/40 ?



Duration: 60 Minutes

The respondent's email (sanket.mandavgane.cmaug25@gmail.com) was recorded on submission of this form.

0 of 0 points

Name *		
Sanket Mandavgane		
DDN *		
PRN *		
250840320174		

MCQ 29 of 40 points

```
List<String> list = new ArrayList<>();
                                                                                     1/1
    list.add("A");
    list.add("B");
    list.add("C");
     Iterator<String> it = list.iterator();
     while(it.hasNext()) {
       String s = it.next();
       if(s.equals("B")) {
         list.add("D");
       }
    }
    What will happen when this code runs?
     A) Prints A, B, C, D

    B) ConcurrentModificationException

     C) Compilation error
     D) Infinite loop
```

```
Map<String, Integer> map = new HashMap<>();
                                                                            1/1
    map.put("A", 1);
    map.put("B", 2);
    map.put("A", 3);
    map.put(null, 4);
    map.put("C", null);
    System.out.println(map.size() + " " + map.get("A") + " " + map.get(null));
    What is the output?
    A) 514
B) 4 3 4
C) 4 1 null
D) Compilation error
```

```
Set<StringBuilder> set = new HashSet<>();
                                                                              0/1
    StringBuilder sb1 = new StringBuilder("Hello");
    StringBuilder sb2 = new StringBuilder("Hello");
    set.add(sb1);
    set.add(sb2);
    sb1.append(" World");
    System.out.println(set.size() + " " + set.contains(sb1));
    What is the output?
    A) 1 true
 B) 2 true
                                                                             X
    C) 2 false
     D) 1 false
Correct answer
C) 2 false
```

×	List <integer> list = Arrays.asList(1, 2, 3); *</integer>	0/1
	Collections.reverse(list);	
	list.add(4);	
	System.out.println(list);	
	What happens?	
•	A) Prints [3, 2, 1, 4]	×
0	B) Prints [4, 3, 2, 1]	
0	C) UnsupportedOperationException	
0	D) Compilation error	
Corr	ect answer	
•	C) UnsupportedOperationException	

```
TreeSet<String> set = new TreeSet<>(); *
                                                                                   1/1
    set.add("banana");
    set.add("apple");
    set.add("cherry");
    set.add(null);
    for(String s : set) {
      System.out.print(s + " ");
    What happens?
    A) Prints apple banana cherry null
    B) Prints null apple banana cherry

    C) NullPointerException

    D) Prints banana apple cherry null
```

×	What is the fundamental difference between fail-fast and fail-safe iterators in Java Collections?	*0/1
0	A) Fail-fast works on original collection, fail-safe works on copy	
•	B) Fail-fast throws exceptions, fail-safe never throws exceptions	×
0	C) Fail-fast is faster, fail-safe is safer	
0	D) Fail-fast is for Lists, fail-safe is for Sets	
Corr	rect answer	
•	A) Fail-fast works on original collection, fail-safe works on copy	
~	Why does HashMap use both hashCode() and equals() methods, and what happens if they're not consistent?	*1/1
/		*1/1
✓ ○ ⊚	what happens if they're not consistent?	*1/1
<!--</td--><td>what happens if they're not consistent? A) hashCode() for insertion, equals() for retrieval</td><td>*1/1</td>	what happens if they're not consistent? A) hashCode() for insertion, equals() for retrieval	*1/1
<!--</td--><td>what happens if they're not consistent? A) hashCode() for insertion, equals() for retrieval B) hashCode() determines bucket, equals() resolves collisions</td><td>*1/1</td>	what happens if they're not consistent? A) hashCode() for insertion, equals() for retrieval B) hashCode() determines bucket, equals() resolves collisions	*1/1

✓	What is the significance of load factor in HashMap and how does it affect *1/1 performance?
0	A) Higher load factor = better performance always
	B) Load factor determines when to rehash for balance of space vs time
0	C) Load factor only affects memory usage, not time complexity
0	D) Load factor is fixed and cannot be changed
✓	What is the difference between Comparable and Comparator, and when *1/1 should each be used?
✓○○	should each be used?
<!--</td--><td>should each be used? A) Comparable is for primitives, Comparator is for objects</td>	should each be used? A) Comparable is for primitives, Comparator is for objects
<!--</td--><td>should each be used? A) Comparable is for primitives, Comparator is for objects B) Comparable provides natural ordering, Comparator provides custom ordering</td>	should each be used? A) Comparable is for primitives, Comparator is for objects B) Comparable provides natural ordering, Comparator provides custom ordering

System.out.println(new ArrayList<>().add("test")); *	0/1
What does this print?	
A) test	
B) true	
C) [test]	×
O) Compilation error	
Correct answer	
B) true	
System.out.println(Arrays.asList(1,2,3).getClass().getSimpleName()); *	1/1
What is the output?	
(A) A way list	
A) ArrayList	
B) List	
	✓
B) List	✓

×	System.out.println(Collections.emptyList() == Collections.emptyList()); *	0/1
	What does this print?	
	A) true B) false C) Compilation error D) Depends on JVM	×
Corr	ect answer	
•	A) true	
×	System.out.println(new TreeSet<>(Arrays.asList(3,1,4,1,5)).size()); *	0/1
×	System.out.println(new TreeSet<>(Arrays.asList(3,1,4,1,5)).size()); * What is the output?	0/1
×		0/1
× •	What is the output?	
× •	What is the output? A) 5	
× •	What is the output? A) 5 B) 4	
	What is the output? A) 5 B) 4 C) 3	

×	System.out.println(new LinkedHashMap<>().put("key", "value")); *	0/1
	What does this print?	
0	A) value	
0	B) key	
0	C) null	
•	D) {key=value}	×
Corre	ect answer	
•	C) null	
~	A shopping cart system needs to: - Allow duplicate items - Maintain the order items were added - Provide fast access by index	1/1
~	Allow duplicate itemsMaintain the order items were added	1/1
O	 Allow duplicate items Maintain the order items were added Provide fast access by index 	1/1
	 Allow duplicate items Maintain the order items were added Provide fast access by index Which collection is most suitable?	1/1
	 Allow duplicate items Maintain the order items were added Provide fast access by index Which collection is most suitable? A) HashSet	1/1
	 Allow duplicate items Maintain the order items were added Provide fast access by index Which collection is most suitable? A) HashSet B) LinkedHashSet 	1/1

	An online voting system needs to ensure: - No duplicate votes from same voter ID - Fast lookup to check if voter has already voted - No specific ordering required	1/1
	Which collection should be used to store voter IDs?	
0	A) ArrayList	
0	B) LinkedList	
•	C) HashSet	✓
0	D) TreeMap	
×	A student grade system needs to: - Map student names to their grades - Maintain alphabetical order of students - Allow grade updates	/1
	Which collection is most appropriate?	
0	A) HashMap	
0	A) HashMap B) LinkedHashMap	
0		
0	B) LinkedHashMap	
	B) LinkedHashMap C) TreeMap	×

Which collection allows duplicate elements but maintains insertion order?	* 1/1
A) HashSet	
B) TreeSet	
C) ArrayList	✓
O D) HashMap	
Which interface does TreeMap implement for automatic sorting? *	0/1
A) Comparable	
B) Comparator	
© C) SortedMap	×
O) NavigableMap	
Correct answer	
D) NavigableMap	
✓ What happens when you add a null value to a TreeSet? *	1/1
A) It gets added at the beginning	
B) It gets added at the end	
C) NullPointerException is thrown	✓
O) It gets ignored	

~	Which collection maintains insertion order and allows fast insertion/deletion at both ends?	*1/1
(A) ArrayList	
(B) LinkedList	✓
	C) Vector	
	D) Stack	
~	What is the difference between HashMap and LinkedHashMap? *	1/1
	A) HashMap is synchronized, LinkedHashMap is not	
(B) LinkedHashMap maintains insertion order, HashMap doesn't	✓
	C) HashMap allows null keys, LinkedHashMap doesn't	
(D) LinkedHashMap is faster than HashMap	
~	Which method is used to safely remove elements while iterating through a collection?	*1/1
(A) collection.remove()	
	B) iterator.delete()	
(C) iterator.remove()	✓
	D) collection.delete()	

✓	Set <string> set = new HashSet<>(); *</string>	1/1
	set.add("A");	
	set.add("B");	
	set.add("A");	
	System.out.println(set.size());	
	What will be the output of this code?	
0	A) 1	
•	B) 2	✓
0	C) 3	
0	D) Compilation Error	
/	Which collection class is best for implementing a LIFO (Last In First Out) structure?	*1/1
0	A) ArrayList	
0	B) LinkedList	
0	C) Stack	✓
0	D) Queue	

★ What is the default initial capacity of ArrayList? *	0/1
(A) 8	
O B) 10	
© C) 16	×
O D) 32	
Correct answer	
B) 10	
✓ Which interface should a class implement to be stored in a TreeSet without providing a Comparator?	*1/1
A) Serializable	
O B) Cloneable	
C) Comparable	✓
O) Iterator	

/	Which collection allows duplicate keys? *	1/1
	A) HashMap B) TreeMap C) LinkedHashMap D) None of the above All of these	✓
~	What will happen if you try to add elements to a collection while iterating using enhanced for loop?	*1/1
•	A) Elements will be added successfully B) ConcurrentModificationException C) Compilation error D) Elements will be ignored	~
~	Which method is used to convert a Collection to Array? *	1/1
	A) toArray() B) convertToArray() C) getArray() D) asArray()	✓

✓ What is the load factor of HashMap by default? *	1/1
O A) 0.5	
B) 0.75	~
O C) 1.0	
O D) 0.25	
✓ Which collection is synchronized by default? *	1/1
A) ArrayList	
B) HashMap	
C) Vector	~
O D) HashSet	
✓ Which method is used to check if a Map contains a specific key? *	1/1
A) hasKey()	
B) containsKey()	✓
C) keyExists()	
D) findKey()	

~	What will be the iteration order of elements in a TreeSet? *	1/1
	A) Insertion order	
	B) Random order	
(C) Sorted order	✓
	D) Reverse insertion order	
~	What are the different ways to create threads in Java and what are their advantages/disadvantages?	*1/1
	A) Only by extending Thread class	
	B) Extending Thread class or implementing Runnable interface	
(C) Extending Thread, implementing Runnable, using Callable with ExecutorService	✓
	D) Only by implementing Runnable interface	

```
class MyThread extends Thread {
                                                                                  1/1
      public void run() {
        for(int i = 0; i < 3; i++) {
          System.out.println(Thread.currentThread().getName() + ": " + i);
          try { Thread.sleep(100); } catch(InterruptedException e) {}
   public class Test {
      public static void main(String[] args) {
        MyThread t1 = new MyThread();
        MyThread t2 = new MyThread();
        t1.run();
        t2.start();
      }
   What is the difference in execution between t1.run() and t2.start()?
    A) Both create new threads and run concurrently

    B) t1.run() executes in main thread, t2.start() creates new thread

    C) Both execute in main thread sequentially
D) t1.run() creates thread, t2.start() doesn't
```

?

```
✓ class Counter implements Runnable {
                                                                                 1/1
       private static int count = 0;
       public void run() {
         for(int i = 0; i < 1000; i++) {
           count++;
         }
         System.out.println("Final count: " + count);
      }
    }
    public class Test {
       public static void main(String[] args) throws InterruptedException {
         Counter counter = new Counter();
         Thread t1 = new Thread(counter);
         Thread t2 = new Thread(counter);
         t1.start();
         t2.start();
         t1.join();
         t2.join();
      }
    What is the most likely outcome and why?
```

A) Always prints "Final count: 2000" twice	
B) Prints unpredictable values less than or equal to 2000	✓
C) Compilation error	
O) Always prints "Final count: 1000" twice	

```
public class Example {
                                                                                         1/1
      public static void main(String[] args) throws InterruptedException {
         Thread t1 = new Thread(() -> {
           try { Thread.sleep(2000); } catch(InterruptedException e) {}
           System.out.println("Thread 1 finished");
         });
         Thread t2 = new Thread(() -> {
           try { Thread.sleep(1000); } catch(InterruptedException e) {}
           System.out.println("Thread 2 finished");
         });
         t1.start();
         t2.start();
         t1.join();
         System.out.println("Main finished");
      }
    }
    What is the execution order?
    A) Thread 1 \rightarrow Thread 2 \rightarrow Main
(a) B) Thread 2 \rightarrow Thread 1 \rightarrow Main
    C) Thread 2 \rightarrow Main \rightarrow Thread 1
    D) Unpredictable order
```

<pre>new Thread(() -> System.out.println("Hello")).start(); *</pre>	1/1
What does this line demonstrate?	
A) Anonymous thread creation using lambda expression	✓
B) Compilation error due to lambda syntax	
C) Creates thread but doesn't start it	
O) Synchronous execution in main thread	
System.out.println(Thread.currentThread().getState()); *	0/1
If this executes in main method, what will it print?	
A) NEW	
B) RUNNABLE	
© C) RUNNING	×
O D) ACTIVE	
Correct answer	
B) RUNNABLE	
Experience Zone - No formality	0 of 0 points
Level of Exam *	Dropdown
Moderate ▼	

?

I will keep revising all the concepts time to time. (Without revision all progress will be diminished with time). Now, I will also focus in Communicating in English as well.	* Dropdown		
Koi kuch bhi bole - 60% leaao bas I will achieve 100% in CCEE.			
I Promise ▼			

This content is neither created nor endorsed by Google. - <u>Contact form owner</u> - <u>Terms of Service</u> - <u>Privacy Policy</u>

Does this form look suspicious? <u>Report</u>

Google Forms