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## WHATS HOT

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My first priority always will be to listen to my readers and understand what their pain points are. This article is about addressing one of their pain point which is collection programs in java for interview or java collections coding questions.

Where you can expect to get bombarded with such kind of questions? The answer is you can be asked to write java collection programs in written round

or even in face to face round of interview. Make



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Let me explain one thing before deep diving into the questions, you can solve one question in many ways. For example, if you need to traverse ArrayList then you can traverse through for loop, while loop, advance for loop or iterator. In this scenario, you should know at least one way to traverse the ArrayList. In short, produce the output whatever interviewer demands.

### **Read Also : Java Collections Interview Questions**

I have divided this post into 3 categories :

1. Beginner's level (0-1 year) freshers
2. Intermediate level (2-7 years) experienced
3. Advance level (7 or above) years experienced

## **Beginner's Level (0-1 year experience) Collection Programs in Java for Interview**

### **Q1. Write a program to traverse iterate) ArrayList? (Solution)**

As I already mentioned, you can traverse ArrayList using for loop, while loop, advance for loop and iterator. This question tests knowledge of add() method of ArrayList and looping concepts.

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```

import java.util.*;
public class ArrayListLoopExample {
    public static void main(String args[])
        // initialize ArrayList
        ArrayList<Integer> al = new ArrayList<Integer>();
        // add elements to ArrayList object
        al.add(3);
        al.add(17);
        al.add(6);
        al.add(9);
        al.add(7);
        System.out.println("Using Advance");
        // printing ArrayList
        for (Integer num : al) {
            System.out.println(num);
        }
    }
}

```

## Q2 Write a program to convert List to Array. **(Solution)**

List for e.g ArrayList or LinkedList can be converted to Array using toArray() method.

## Q3 Write a program to traverse(or iterate) HashSet? **(Solution)**

You can traverse the HashSet using iterator or without using iterator as

## Q4 Given an element write a program to check if element(value) exists in ArrayList?

You can check if element(value) exists in ArrayList using ArrayList contains() method. Example is given below:-



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```

public static void main(String args[])
    // initialize ArrayList
    ArrayList<Integer> al = new ArrayList<Integer>();
    // add elements to ArrayList object
    al.add(3);
    al.add(17);
    al.add(6);
    al.add(9);
    al.add(7);
    // check if ArrayList contains element
    if (al.contains(7)) {
        System.out.println("7 was found");
    } else {
        System.out.println("7 was not found");
    }
}

```

### Q5 Given an element write a program to check if element exists in HashSet?

You can check if element(value) exists in HashSet using the contains() method.

Example is given below :

```

import java.util.*;
public class HashSetContainsExample {
    public static void main(String args[])
        // initialize HashSet
        HashSet<Integer> hs = new HashSet<Integer>();
        // add elements to HashSet
        hs.add(3);
        hs.add(17);
        hs.add(6);
        hs.add(9);
        hs.add(7);
        // check if HashSet contains element
        if (hs.contains(7))
            System.out.println("7 was found");
        else
            System.out.println("7 was not found");
    }
}

```



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```
}
```

### Q6 Write a program to initialize a HashMap in java ?

You can initialize a HashMap in java using below code :

```
// initialize HashMap  
HashMap<String, String> hashmap
```

### Q7 Write a program to initialize an ArrayList in java?

```
// initialize ArrayList  
ArrayList<Integer> al = new ArrayList
```

### Q8 Write a program to convert Array to List? **(Solution)**

Array can be converted to list using Arrays.asList() method.

### Q9 Write a program to find the length of the ArrayList? **(Solution)**

Length of the ArrayList can be found using size() method.

### Q10 Write a program to add elements to the HashMap given the key and value data type is String?



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```
hashmap.put("1", "Value1");
hashmap.put("2", "Value2");
hashmap.put("3", "Value3");
hashmap.put("4", "Value4");
hashmap.put("5", "Value5");
```

### Q11 Write a program to initialize a HashSet in java?

```
// initialize HashSet
HashSet<Integer> al = new HashSet<Integer>();
```

### Q12 Write a program to add elements to ArrayList ?

```
ArrayList<Integer> al = new ArrayList<Integer>();
// add elements to ArrayList object
al.add(3);
al.add(17);
al.add(6);
al.add(9);
al.add(7);
```

### Q13 Write a program to add elements to HashSet?

```
import java.util.*;
public class HashSetAddExample {
    public static void main(String[] args) {
        // initialize HashSet
        HashSet<Integer> hs = new HashSet<Integer>();
        // add elements to HashSet
        hs.add(3);
```



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```
System.out.println("Using Advance  
// printing HashSet  
for (Integer num : hs) {  
    System.out.println(num);  
}  
}  
}
```

#### Q14 Write a program to get size of HashMap? (**Solution**)

You can use the size() method of  
HashMap class.

#### Q15 How to check if HashMap is empty? (**Solution**)

You can check if HashMap is empty  
using isEmpty() method.

## Intermediate level(2-7 year experience) Collection Programs in Java

#### Q16 Write a program to iterate the HashMap ? (**Solution**)

There are many ways to iterate the  
HashMap. The best way to iterate the  
HashMap is using iterator.

#### Q17 Write a program to sort Has by keys ? (**Solution**)



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## using Comparable and Comparator? (Solution)

You can sort ArrayList of Objects using Comparable and Comparator.

## Q19 Write a program to sort ArrayList in descending order? (Solution)

You can sort the ArrayList in descending order using Collections.reverseOrder() method.

## Q20 Write a program to add element at particular index of ArrayList? (Solution)

You can add element at particular index of ArrayList using method add(int index, Object element).

## Q21 Write a program to remove element from specified index of ArrayList? (Solution)

You can remove element at particular index of ArrayList using remove(int index) method.

## Q22 Write a program to convert LinkedList to ArrayList? (Solution)

## Q23 Write a program to convert HashSet to Array? (Solution)

## Q24 Write a program to reverse ArrayList in java? (Solution)

## Q25 Write a program to iterate TreeMap in java? (Solution)



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# Advance Level(7+ years experience) Collection Programs in Java

**Q26 Write a program to sort HashMap by value? ([Solution](#))**

**Q27 How to serialize a HashMap in java? ([Solution](#))**

**Q28 How to synchronize a HashMap in java? ([Solution](#))**

**Q29 How to serialize an ArrayList in java? ([Solution](#))**

**Q30 How to synchronize an ArrayList in java? ([Solution](#))**

Please mention in the comments if you have face any collection programs interview questions which are not in the above list.

## About The Author

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particular key  
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4 ways on How to  
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