Java Collections frequency() Method

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The **frequency()** method of Java Collections class is used to get the number of elements in the specified collection equal to the specified object.

Syntax

Following is the declaration of **frequency()** method:

```
public static int frequency(Collections<?> c, Object obj)
```

Parameter

Parameter	Description	Required/Optional
c	It is the collection in which to determine the frequency of obj.	Required

obj	It is the object whose frequency is to be determined.	Required

Returns

The **frequency()** method returns the number of elements in the collections c equal to the specified object obj.

Exceptions

NullPointerException- This exception will be thrown if collection c is null.

Compatibility Version

Java 1.5 and above

Example 1

```java
import java.util.*;
public class CollectionsFrequencyExample1 {
    public static void main(String[] args) {
        //Create a list object
        List<String> arrlist = new ArrayList<String>();
        //Add elements in the list
        arrlist.add("Java");
        arrlist.add("COBOL");
        arrlist.add("Java");
        arrlist.add("C++");
        arrlist.add("Java");
        System.out.println("List of elements: "+arrlist);
        //Count the frequency of the given word
        System.out.println("Frequency of the Word: "+Collections.frequency(arrlist,"Java"));
    }
}
```

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Output:

```
List of elements: [Java, COBOL, Java, C++, Java]
Frequency of the Word: 3
```

Example 2

```
import java.util.*;
public class CollectionsFrequencyExample2 {
    public static void main(String[] args) {
        //Create a list object
        List<Integer> list = new ArrayList<>();
        list.add(1);
        list.add(2);
        list.add(1);
        list.add(3);
        list.add(2);
        list.add(3);
        list.add(4);
        System.out.println("List of elements: "+list);
        System.out.println("\nCount all with frequency:");
        Set<Integer> uniqueSet = new HashSet<Integer>(list);
        for (Integer i : uniqueSet) {
            System.out.println(i + ": " + Collections.frequency(list, i));
        }
    }
}
```

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Output:

```
List of elements: [1, 2, 1, 3, 2, 3, 4]
Count all with frequency:
```

```
1: 2
2: 2
3: 2
4: 1
```

Example 3

```java
import java.util.*;
public class CollectionsFrequencyExample3 {
    public static void main(String[] args) {
        // Let us create an array of integers
        Integer arr[] = {20, 10, 20, 30, 20, 40, 20};
        int freq = Collections.frequency(Arrays.asList(arr), 20);
        System.out.println("Frequency of 20 is: "+freq);
    }
}
```

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Output:

```
Frequency of 20 is: 4
```

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