

# Java Coding Questions with Example

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## Array

### Q. Swap two numbers using temporary variable

Input - a = 10, b = 20;

Output - a = 20 , b = 10

```
public class A {  
    public static void main(String[] args) {  
        int a = 10;  
        int b = 20;  
        int temp = a;
```

```
        a = b;  
        b = temp;  
        System.out.println(a);  
        System.out.println(b);  
    }  
}
```

### **Q. Swap two numbers without temporary variable**

Input - a = 10, b = 20;

Output - a = 20 , b = 10

```
public class A {  
    public static void main(String[] args) {  
        int a = 10;  
        int b = 20;  
        a = a + b;  
        b = a - b;  
        a = a - b;  
        System.out.println(a);  
        System.out.println(b);  
    }  
}
```

### **Q. Check a number is even or odd**

```
public class A {  
    public static void main(String[] args) {  
        int number = 15;
```

```

    if (number%2==0){
        System.out.println("number is even");
    }else {
        System.out.println("number is odd");
    }
}
}

```

### Q. Find largest of three numbers

Input - int a = 10;  
           int b = 15;  
           int c = 5;

Output - 15

```

public class A {
    public static void main(String[] args) {
        int a = 10;
        int b = 15;
        int c = 5;
        int largest = a > (b>c?b:c)?a:(b>c?b:c);
        System.out.println(largest);
    }
}

```

### Q. Check a year is leap year or not

```

public class A {
    public static void main(String[] args) {
        int year = 2020;
    }
}

```

```

        if ((year%4==0)||((year%4==0)&&(year%100!=0))){
            System.out.println("leap year");
        }else {
            System.out.println("not leap year");
        }
    }
}

```

### **Q. Find factorial of a number using for loop**

```

public class A {
    public static void main(String[] args) {
        int number = 5;
        int fact = 1;
        for (int i=2;i<=5;i++){
            fact = fact*i;
        }
        System.out.println(fact);
    }
}

```

### **Q. Fibonacci Series**

**0, 1, 1, 2, 3, 5, 8, 13, 21, 34**

```

public class A {
    public static void main(String[] args) {
        int n1 = 0;
        int n2 = 1;
        int count = 10;
    }
}

```

```

        System.out.print(n1+" "+n2);
        for (int i=2;i<count;i++){
            int n3 = n1 + n2;
            System.out.print(" "+n3);
            n1 = n2;
            n2 = n3;
        }
    }
}

```

### **Q. Check a number is prime or not**

```

public class A {
    public static void main(String[] args) {
        int number = 4;
        if (isPrime(number)){
            System.out.println("number is prime");
        }else {
            System.out.println("number is not prime");
        }
    }

    private static boolean isPrime(int number) {
        if (number<=1){
            return false;
        }
        for (int i=2;i<Math.sqrt(number);i++){
            if (number%i==2){
                return false;
            }
        }
    }
}

```

```

    }
    return true;
}
}

```

## Q. Search an element in an array

Input - `int[] arr = {1,2,3,6,8,9,5,0};`

Output - Element is present at index 3

```

public class A {
    public static void main(String[] args) {
        int[] arr = {1,2,3,6,8,9,5,0};
        int element = 6;
        for (int i=0;i<arr.length;i++){
            if (arr[i]==element){
                System.out.println("Element is present at index "+i);
                break;
            }
        }
    }
}

```

## Q. Sort an Array

Input - `{3,4,6,7,3,6,2};`

Output - `[2, 3, 3, 4, 6, 6, 7]`

```

public class A {

```

```
public static void main(String[] args) {  
    int [] arr = {3,4,6,7,3,6,2};  
    Arrays.sort(arr);  
    System.out.println(Arrays.toString(arr));  
}  
}
```

### **Q. Find largest element in an array**

Input - {10,324,45,90,9898};

Output - 9898

```
public class A {  
    public static void main(String[] args) {  
        int[] arr = {10,324,45,90,9898};  
        int largest = arr[0];  
        for (int i=1;i<arr.length;i++){  
            if (arr[i]>largest){  
                largest = arr[i];  
            }  
        }  
        System.out.println(largest);  
    }  
}
```

### **Q. Find minimum element in an array**

Input - {10,324,45,90,9898};

Output - 10

```

public class A {
    public static void main(String[] args) {
        int[] arr = {10,324,45,90,9898};
        int minimum = arr[0];
        for (int i=1;i<arr.length;i++){
            if (arr[i]<minimum){
                minimum = arr[i];
            }
        }
        System.out.println(minimum);
    }
}

```

## Q. Merge two Arrays

input - int a[] = {30,25,40};  
         int b[] = {45,50,55,60,65};  
 Output - 30 25 40 45 50 55 60 65

```

public class A {
    public static void main(String[] args) {
        int a[] = {30,25,40};
        int b[] = {45,50,55,60,65};
        int length = a.length + b.length;
        int[] c = new int[length];
        for (int i=0;i<a.length;i++){
            c[i] = a[i];
        }
        for (int i =0;i<b.length;i++){
            c[a.length+i] = b[i];
        }
    }
}

```



```
}  
for (int x:c){  
    System.out.print(x+" ");  
}  
}  
}
```

# String

## Q. How to take an input String

```
public class A{  
    public static void main(String[] args) {  
        System.out.println("Enter a String :");  
        Scanner scan = new Scanner(System.in);  
        String str = scan.next();  
        System.out.println(str);  
    }  
}
```

## Q. To get a character from a String

```
public class A {  
    public static void main(String[] args) {  
        String str = "javaProgramming";  
        int index = 4;  
        System.out.println(str.charAt(index));  
    }  
}
```

## Q. Replace a character at a specific index in a String

Input - javaDrogramming

Output - javaProgramming

```
public class A {  
    public static void main(String[] args) {  
        String str = "javaDrogramming";  
        int index = 4;  
        char ch = 'P';  
        str = str.substring(0,index) + ch + str.substring(index+1);  
        System.out.println(str);  
    }  
}
```

## Q. Replace a character at a specific index in a String using StringBuilder

Input - javaDrogramming

## Output - javaProgramming

```
public class A {  
    public static void main(String[] args) {  
        String str = "javaDrogramming";  
        int index = 4;  
        char ch = 'P';  
        StringBuilder str1 = new StringBuilder(str);  
        str1.setCharAt(index,ch);  
        System.out.println(str1);  
    }  
}
```

## Q. Replace a character at a specific index in a String using StringBuffer

Input - javaDrogramming

Output - javaProgramming

```
public class A {  
    public static void main(String[] args) {  
        String str = "javaDrogramming";  
        int index = 4;  
        char ch = 'P';  
        StringBuffer str1 = new StringBuffer(str);  
        str1.setCharAt(index,ch);  
        System.out.println(str1);  
    }  
}
```

## Q. Reverse a String

Input - ashutosh

Output - hsotuhsa

```
public class A {  
    public static void main(String[] args) {  
        String str = "java";  
        String revStr = "";  
        for (int i=0;i<str.length();i++){  
            revStr = str.charAt(i)+revStr;  
        }  
        System.out.println(revStr);  
    }  
}
```

## Q. To sort a String

Input - hello

Output - ehlllo

```
public class A {  
    public static void main(String[] args) {  
        String str = "hello";  
        char[] charArr = str.toCharArray();  
        Arrays.sort(charArr);  
        String sortedString = new String(charArr);  
        System.out.println(sortedString);  
    }  
}
```

## Q. Swapping pair of characters in a String

Input - computer

Output - [o, c, p, m, t, u, r, e]

```
public class A {  
    public static void main(String[] args) {  
        String str = "computer";  
        swapPair(str);  
    }  
  
    private static void swapPair(String str) {  
        if (str==null||str.isEmpty()){  
            System.out.println("String is null or Empty");  
        }  
        char[] ch = str.toCharArray();  
        for (int i=0;i<str.length()-1;i=i+2){  
            char temp = ch[i];  
            ch[i] = ch[i+1];  
            ch[i+1] = temp;  
        }  
        System.out.println(ch);  
    }  
}
```

## Q. Find a unicode value of character

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

```
String str = "abcxyzABCXYZ";
System.out.println(str.codePointAt(0));
System.out.println(str.codePointAt(1));
System.out.println(str.codePointAt(2));
System.out.println(str.codePointAt(3));
System.out.println(str.codePointAt(4));
System.out.println(str.codePointAt(5));
}
}
```

Output -

97  
98  
99  
120  
121  
122

## **Q. Remove Leading zeros from a String**

Input - 0000abc

Output - abc

```
public class A {
    public static void main(String[] args) {
        String str = "0000abc";
        removeZero(str);
    }
    private static void removeZero(String str) {
        int i=0;
```

```

        while (i<str.length() && str.charAt(i)=='0') {
            i++;
        }
        StringBuffer sb = new StringBuffer(str);
        sb.replace(0,i,"");
        System.out.println(sb.toString());
    }
}

```

## Q. Compare to String

```

public class A {
    public static void main(String[] args) {
        String str1 = "testing";
        String str2 = "testing";
        if (str1.equals(str2)){
            System.out.println("Both Strings are equals");
        }else {
            System.out.println("String are not equals");
        }
    }
}

```

## Q. Check String is palindrome or not

```

public class A {
    public static void main(String[] args) {
        String str = "madam";
        if (checkPalindrome(str)){
            System.out.println("String is palindrome");
        }
    }
}

```

```

    }else {
        System.out.println("String is not palindorme");
    }
}

```

```

private static boolean checkPalindrome(String str) {

    int left = 0;
    int right = str.length()-1;
    while (left<right){
        if (str.charAt(left)!=str.charAt(right)){
            return false;
        }
        left++;
        right--;
    }
    return true;
}
}

```

## **Q. Java Program to count occurrence of each character in a String**

Input - ashutosh

Output - {a=1, s=2, t=1, u=1, h=2, o=1}

```

public class A {
    public static void main(String[] args) {
        String str = "ashutosh";
    }
}

```



```

        Map<Character, Integer> charMapCount = new
HashMap<>();
        for (Character ch :str.toCharArray()){
            if (charMapCount.containsKey(ch)){
                charMapCount.put(ch,charMapCount.get(ch)+1);
            }else {
                charMapCount.put(ch,1);
            }
        }
        System.out.println(charMapCount);
    }
}

```

## Q. Reverse a String using Recursion

Input - ashutosh

Output - hsotuhsa

```

public class A {
    public static void main(String[] args) {
        String str = "java";
        String revStr = reverseString(str);
        System.out.println(revStr);
    }

    private static String reverseString(String str) {
        if (str==null||str.length()<=1){
            return str;
        }
    }
}

```

```

        return reverseString(str.substring(1))+str.charAt(0);
    }
}

```

## Q. Count number of words in a String

Input - java programming questions

Output - 3

```

public class A {
    public static void main(String[] args) {
        String str = "java programming questions";
        System.out.println(countWord(str));
    }
    private static int countWord(String str) {
        int wordCount = 1;
        for (int i=0;i<str.length();i++){
            if (str.charAt(i)==' ' && i<str.length()-1 && str.charAt(i+1)!='
'){
                wordCount++;
            }
        }
        return wordCount;
    }
}

```

## Q. Find Duplicate character in a String

Input - programming

Output - r g m

```

public class A {
    public static void main(String[] args) {
        String str = "programming";
        duplicateCharacter(str);
    }

    private static void duplicateCharacter(String str) {
        Map<Character,Integer> charMapCount = new
HashMap<>();
        for (Character ch:str.toCharArray()){
            if (charMapCount.containsKey(ch)){
                charMapCount.put(ch,charMapCount.get(ch)+1);
            }else {
                charMapCount.put(ch,1);
            }
        }
        charMapCount.forEach((key,value)->{
            if (value>1){
                System.out.print(key+" ");
            }
        });
    }
}

```

## Q. Reverse a String using stack

Input - ashutosh

Output - hsotuhsa

```

public class A {
    public static void main(String[] args) {
        String str = "java";
        Stack<Character> stack = new Stack<>();
        for (int i=0;i<str.length();i++){
            stack.push(str.charAt(i));
        }
        System.out.println("Reverse of String :");
        while (!stack.empty()){
            System.out.print(stack.pop());
        }
    }
}

```

## Q. Find first non-repeating character in a String

Input - java

Output - j,v

```

public class A {
    public static void main(String[] args) {
        String str = "java";
        Map<Character,Integer> charMapCount = new
HashMap<>();
        for (Character ch:str.toCharArray()){
            if (charMapCount.containsKey(ch)){
                charMapCount.put(ch,charMapCount.get(ch)+1);
            }else {
                charMapCount.put(ch,1);
            }
        }
    }
}

```

```

    }
    for (int i=0;i<str.length();i++){
        char c = str.charAt(i);
        if (charMapCount.get(c)==1){
            System.out.println("first non repeating character "+c);
            break;
        }
    }
}
}
}

```

## Q. Find the longest common prefix

Input - {"cat", "cable", "camera"}

Output - ca

```

public class A {
    public static void main(String[] args) {
        String str[] = {"cat", "cable", "camera"};
        String result = findLongestPrefix(str);
        System.out.println(result);
    }

    private static String findLongestPrefix(String[] str) {
        if (str==null||str.length==0){
            return "";
        }
        String lcp = str[0];
        for (int i=1;i<str.length;i++){
            String currentWord = str[i];

```

```

        int j=0;

        while(j<currentWord.length()&& j<lcp.length()&&currentWord.charAt(j)==lcp.charAt(j)){
            j++;
        }
        if (j==0){
            return "";
        }
        lcp = currentWord.substring(0,j);
    }
    return lcp;
}
}

```

## Q. Check for anagram

Input - String str1 = "car";

String str2 = "rac";

Output - Strings are anagram

```

public class A {
    public static void main(String[] args) {
        String str1 = "car";
        String str2 = "rac";
        if (checkAnagram(str1,str2)){
            System.out.println("String are anagram");
        }else {
            System.out.println("String are not anagram");
        }
    }
}

```

```

    }

    private static boolean checkAnagram(String str1, String str2) {
        if (str1.length()!=str2.length()){
            return false;
        }
        int[] countArr = new int[26];
        for (int i=0;i<str1.length();i++){
            countArr[str1.charAt(i)-'a']++;
            countArr[str2.charAt(i)-'a']--;
        }
        for (int i=0;i<countArr.length;i++){
            if (countArr[i]!=0){
                return false;
            }
        }
        return true;
    }
}

```

## Stream API

### Q. Sort a given list in reverse order

Input - `Arrays.asList(12, 2, 4, 5, 2, 4, 8);`

Output - `[12, 8, 5, 4, 4, 2, 2]`

```

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

```

```

        List<Integer> list = Arrays.asList(12, 2,
4, 5, 2, 4, 8);
        List<Integer> newList = list.stream().
            sorted(Comparator.reverseOrder()).
            collect(Collectors.toList());
        System.out.println(newList);

    }
}

```

**Q. Given a list of strings, write a Java 8 program to join the strings with '[' as a prefix, ']' as a suffix, and ',' as a delimiter.**

Input - `Arrays.asList("adam","mike","sam");`

Output - `[adam],[mike],[sam]`

```

public class A {
    public static void main(String[] args) {
        List<String>list=Arrays.asList("adam","mike","sam");
        String result = list.stream()
            .map(s -> "[" + s + "]")
            .collect(Collectors.joining(","));

        System.out.println(result);

    }
}

```

**Q. Find the maximum and minimum of a list of integers**

Input - `Arrays.asList(1,4,6,8,2);`



## Output - 8,1

```
public class A {  
    public static void main(String[] args) {  
  
        List<Integer>list=Arrays.asList(1,4,6,8,2);  
        int max =Collections.max(list);  
        int min =Collections.min(list);  
        System.out.println(max);  
        System.out.println(min);  
  
    }  
}
```

## Q. Merge two unsorted arrays into a single sorted array using Java 8 streams

Input - int[] array1 = {5, 3, 9, 1};

int[] array2 = {7, 2, 8, 4};

Output - [1, 2, 3, 4, 5, 7, 8, 9]

```
public class A {  
    public static void main(String[] args) {  
  
        int[] array1 = {5, 3, 9, 1};  
        int[] array2 = {7, 2, 8, 4};  
  
        int[] mergeArraya =  
        IntStream.concat(Arrays.stream(array1),  
        Arrays.stream(array2))  
                .sorted().distinct().toArray();  
        System.out.println(Arrays.toString(mergeArraya));  
    }  
}
```

## Q. Get the three maximum and three minimum numbers from a given list of integers

```
public class A {  
    public static void main(String[] args) {  
  
List<Integer>list=Arrays.asList(10,50,40,62,4,1,3,5,9);  
        list.stream().sorted(Comparator.reverseOrder())  
            .limit(3).forEach(System.out::println);  
        list.stream().sorted().  
            limit(3).forEach(System.out::println);  
    }  
}
```

## Q.check if two strings are anagrams or not using Java 8 streams

```
public class A {  
    public static void main(String[] args) {  
        String s1="listen";  
        String s2="silent";  
        String join1 =  
Arrays.stream(s1.split("")).sorted().collect(Collectors.joining(""));  
        String join2 =  
Arrays.stream(s2.split("")).sorted().collect(Collectors.joining(""));  
        if(join1.equals(join2)) {  
            System.out.println("anagram");  
        }else {  
            System.out.println("not anagram");  
        }  
    }  
}
```

```
}  
}
```

## Q. Sort a list of strings according to the increasing order of their length

Input - `Arrays.asList("BBB", "A", "CCC", "DDDD");`

Output - [A, BBB, CCC, DDDD]

```
public class A {  
    public static void main(String[] args) {  
  
List<String>list=Arrays.asList("BBB","A","CCC","DDDD");  
        List<String> list2 = list.stream()  
  
        .sorted(Comparator.comparingInt(String::length))  
            .collect(Collectors.toList());  
        System.out.println(list2);  
    }  
}
```

## Q Find the common elements between two arrays

Input - `int[]a1= {10,20,30,40};`

`int[]a2= {40,30,50};`

Output - [40, 30]

```
public class A {  
    public static void main(String[] args) {  
        int[]a1= {10,20,30,40};  
        int[]a2= {40,30,50};
```

```

        Set<Integer> set =
Arrays.stream(a1).boxed().collect(Collectors.toSet());
        int[] commonElement = Arrays.stream(a2).
            filter(a->set.contains(a)).toArray();
        System.out.println(Arrays.toString(commonElement));
    }
}

```

## Q. Reverse each word of a string using Java 8 streams

Input - `Arrays.asList("mike", "adam", "vikas");`

Output - `[ekim, mada, sakiv]`

```

A public class A {
    public static void main(String[] args) {
        List<String>list=Arrays.asList("mike","adam","vikas");
        List<StringBuffer> collect = list.stream()
            .map(word->new StringBuffer(word).reverse())
            .collect(Collectors.toList());
        System.out.println(collect.toString());
    }
}

```

## Q. Find the sum of the first 10 natural numbers

```

public class A {
    public static void main(String[] args) {
        int sum = IntStream.rangeClosed(1, 10).sum();
        System.out.println(sum);
    }
}

```

## Q. Reverse an integer array

Input - {15,20,5,60,70,25,30,45,96};

Output - reverse array [96, 45, 30, 25, 70, 60, 5, 20, 15]

```
public class A {  
    public static void main(String[] args) {  
        int[] num={15,20,5,60,70,25,30,45,96};  
        System.out.println("original array  
"+Arrays.toString(num));  
  
        int[] reverseArray = IntStream.rangeClosed(1,  
num.length).map(i -> num[num.length - i]).toArray();  
        System.out.println("reverse array  
"+Arrays.toString(reverseArray));  
  
    }  
}
```

## Q. Print the first 10 even numbers

```
public class A {  
    public static void main(String[] args) {  
        IntStream.rangeClosed(1,20).filter(i->i%2==0).  
            forEach(System.out::println);  
    }  
}
```

## Q. Find the most repeated element in an array

Input - {1,2,3,4,5,6,3,4,6,7,3,5};

Output - 3

```
public class A {
    public static void main(String[] args) {
        int[] array = {1,2,3,4,5,6,3,4,6,7,3,5};
        Map<Integer, Long> collect =
Arrays.stream(array).boxed().

collect(Collectors.groupingBy(Function.identity(),
Collectors.counting()));

        Integer key = Collections.max(collect.entrySet(),
Map.Entry.comparingByValue()).getKey();
        System.out.println(" most repeated element in an
array"+key);
    }
}
```

## Q. Check if a string is a palindrome using Java 8 streams

```
public class A {
    public static void main(String[] args) {
        String str="nitin";
        String str2="";
        for (int i = str.length()-1; i>=0; i--) {
            str2+=str.charAt(i);
        }
        if(str2.equals(str)){
            System.out.println("string is palindrome");
        }else{
            System.out.println("string is not palindrome");
        }
    }
}
```

```
    }  
}
```

\*\*\*\*\*

## Q. Extract duplicate elements from an array

```
public class A {  
    public static void main(String[] args) {  
  
        int []num={5,25,10,36,25,45,65,75,45,85,95,5};  
        Map<Integer, Long> collect =  
Arrays.stream(num).boxed().  
  
collect(Collectors.groupingBy(Function.identity(),  
Collectors.counting()));  
  
collect.entrySet().stream().filter(str->str.getValue()>1)  
        .forEach(entry->  
System.out.println(entry.getKey()+entry.getValue()));  
  
    }  
}
```

## Q. Find the first repeated character in a string

```
public class A {  
    public static void main(String[] args) {  
  
        String str = "banana";  
        Map<Character, Long> charCountMap = str.chars()
```

```

        .mapToObj(c -> (char)
c).collect(Collectors.groupingBy(c -> c, LinkedHashMap::new,
Collectors.counting())));
        Character c = charCountMap.entrySet()
            .stream().filter(entry -> entry.getValue() >
1)

        .map(Map.Entry::getKey).findFirst().orElseThrow(() -> new
IllegalArgumentException("No non-repeated character found in
the string."));
        System.out.println(c);
    }
}

```

## Q.Find the first non-repeated character in a string

```

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

        String str = "banana";
        Map<Character, Long> charCountMap = str.chars()
            .mapToObj(c -> (char)
c).collect(Collectors.groupingBy(c -> c, LinkedHashMap::new,
Collectors.counting())));
        Character c = charCountMap.entrySet()
            .stream().filter(entry -> entry.getValue() ==
1)

        .map(Map.Entry::getKey).findFirst().orElseThrow(() -> new
IllegalArgumentException("No non-repeated character found in
the string."));
        System.out.println(c);
    }
}

```



```
}
```

## Q.Print the first 10 odd numbers

```
public class A {  
    public static void main(String[] args) {  
  
        IntStream.rangeClosed(1, 20).filter(i -> i % 2 != 0)  
            .forEach(System.out::println);  
    }  
}
```

## Q Write a Java 8 program to get the last element of an array.

Original array: [15, 2, 65, 85, 74, 36, 74, 52, 25, 36, 74, 85]

Last element: 85

```
public class A {  
    public static void main(String[] args) {  
  
        int[] num = {15, 2, 65, 85, 74, 36, 74, 52, 25, 36,  
74, 85};  
        System.out.println("Original array: " +  
Arrays.toString(num));  
        int lastElement = Arrays.stream(num)  
            .reduce((first, second) -> second)  
            .orElseThrow(() -> new IllegalArgumentException("Array is  
empty"));  
        System.out.println("Last element: " + lastElement);  
    }  
}
```

```
}  
}
```

## Q. Write a program to append char in char

input- {A, B, C}

output->[A\_X, B\_Y, C\_Z]

```
public class A {  
    public static void main(String[] args) {  
  
        Stream<Character> charStream = Stream.of('A', 'B',  
'C');  
        charStream.forEach(ch -> {  
            char newChar = (char) (ch + 23);  
            System.out.println(ch + "_" + newChar);  
        });  
    }  
}
```

## Q.How to find duplicate elements in a given integers list in java using Stream functions?

```
public class A {  
    public static void main(String[] args) {  
  
        List<Integer> myList =  
Arrays.asList(10,15,8,49,25,98,98,32,15);  
        Set<Integer> set = new HashSet();  
        myList.stream()  
            .filter(n -> !set.add(n))  
            .forEach(System.out::println);  
    }  
}
```

## Write a program to print the count of each character in a String? and remove white space

Input - string data to count each character

Output - {a=5, c=4, d=1, e=2, g=1, h=2, i=1, n=2, o=2, r=3, s=1, t=5, u=1}

```
public class A {  
    public static void main(String[] args) {  
        List<String> list = Arrays.asList("string data to  
count each character");  
  
        // Join the list into a single string  
        String combinedString = list.stream().  
            collect(Collectors.joining());  
        Map<String, Long> collect =  
Stream.of(combinedString.replace(" ", "").split(""))  
  
        .collect(Collectors.groupingBy(String::toLowerCase,  
Collectors.counting()));  
        System.out.println(collect);  
    }  
}
```

<https://www.linkedin.com/in/kunalkr19>