

Top 10 Java Coding Questions For Test Automation Developers

Interview Questions Selenium Interview Updated: October 23, 2016 Meenakshi Agarwal

java interview questions for software testers, selenium interview questions, webdriver interview 1

Java and Selenium are the best automation tools for QA. And these skills are a must for every QA engineer involved in test automation. Hence, in this post, we're presenting a set of 10 Java coding questions to help test automation developers during job interviews.

It's a common sentiment these days that testers should have a working knowledge of programming languages such as Java or Python. These skills not only help the testers in doing automation testing

but improves the way they use to deal with the product or issues. Also, it's a fact that most IT companies offer high salaries to test automation developers as they know programming.

Learning programming is a step towards turning QA engineers into an SDET i.e. Software Development Engineer in Test. The Giant, Microsoft was the first IT company to invent profile like SDET, later many other companies followed it.

Let's come back to the topic of the day. Companies ask coding related questions to test the programming skills of a tester. It's the point where the below list of Java coding questions will help you. Since Java is the first choice to do Selenium automation, so these questions are a must for the Selenium Webdriver automation testers.

Mostly, the testers are being asked to write simple Java programs to implement certain logic situations. Interviewers usually want to assess how rationally you think about a problem and the way you write code to provide a solution. In this blog post, we've collected 10 Java coding problems which you may have to answer during the interviews. So, let's address each of them one by one.

You can refer the below table of content for quickly going through the list of Java coding questions.

- 1- Write code to filter duplicate elements from an array and print as a list?
- 2- Write code to sort the list of strings using Java collection?
- 3- Write a function to reverse a number in Java?
- 4- Write a method to check prime no. in Java?
- 5- Write a Java program to find out the first two max values from an array?
- 6- Write a Java program to find the longest substring from a given string which doesn't contain any duplicate characters?
- 7- Write Java code to get rid of multiple spaces from a string?
- 8- Write Java code to identify a number as Palindrome?
- 9- Write Java code to swap two numbers without using a temporary variable?
- 10- Write a Java program to demonstrate string reverse with and without StringBuffer class?

Top 10 Java Coding Questions For Test Automation Developers.

We wish that these Java coding questions would provide you the desired edge in a job interview. If you would have any query regarding these questions, then use the comment box given at the end of this post to reach to ...

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Question-1: Write Code To Filter Duplicate Elements From An Array And Print As A List?

```
findDuplicates.java Java
1 package simple.test;
2
3 import java.util.ArrayList;
4 import java.util.HashSet;
5 import java.util.List;
6 import java.util.Set;
7
8 public class findDuplicates {
9
10     public static void main(String[] args) {
11
12         ArrayList<String> list = new ArrayList<String>();
13
14         // Form a list of numbers from 0-9.
15         for (int i = 0; i < 10; i++) {
16             list.add(String.valueOf(i));
17         }
18
19         // Insert a new set of numbers from 0-5.
20         for (int i = 0; i < 5; i++) {
21             list.add(String.valueOf(i));
22         }
23
24         System.out.println("Input list : " + list);
25         System.out.println("\nFiltered duplicates : " + processList(list));
26     }
27
28     public static Set<String> processList(List<String> listContainingDuplicates) {
29
30         final Set<String> resultSet = new HashSet<String>();
31         final Set<String> tempSet = new HashSet<String>();
32
33         for (String yourInt : listContainingDuplicates) {
34             if (!tempSet.add(yourInt)) {
35                 resultSet.add(yourInt);
36             }
37         }
38         return resultSet;
39     }
40 }
```

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Question-2: Write Code To Sort The List Of Strings Using Java Collection?

```
sortStrings.java Java
1 package simple.test;
2
3 import java.util.Arrays;
4
5 public class sortStrings {
6
7     public static void main(String[] args) throws Exception {
8
9         String[] inputList = { "Jan", "Feb", "Mar", "Apr", "May", "Jun", "Jul",
10             "aug", "Sep", "Oct", "nov", "Dec" };
11
12         // Display input un-sorted list.
13         System.out.println("-----Input List-----");
14         showList(inputList);
15
16         // Call to sort the input list.
17         Arrays.sort(inputList);
18
19         // Display the sorted list.
20         System.out.println("\n-----Sorted List-----");
21         showList(inputList);
22
23         // Call to sort the input list in case-sensitive order.
24         System.out.println("\n-----Sorted list (Case-Sensitive)-----");
25         Arrays.sort(inputList, String.CASE_INSENSITIVE_ORDER);
26
27         // Display the sorted list.
28         showList(inputList);
29     }
30
31     public static void showList(String[] array) {
32         for (String str : array) {
33             System.out.print(str + " ");
34         }
35         System.out.println();
36     }
37
38 }
```

Question-3: Write A Function To Reverse A Number In Java?

```
invertNumber.java Java
1 package simple.test;
2
3 public class invertNumber {
4
5     public long doInvert(long number) {
6
7         long invert = 0;
8         while (number != 0) {
9             invert = (invert * 10) + (number % 10);
10            number = number / 10;
11        }
12        return invert;
13    }
14
15    public static void main(String args[]) {
16        long lnum = 654321;
17        invertNumber input = new invertNumber();
18
19        System.out.println("Input value : " + lnum);
20        System.out.println("Inverted value : " + input.doInvert(lnum));
21    }
22 }
```

Further Reading:

💡 [Top 20 Selenium Coding Tips for Software Testers.](#)

Question-4: Write A Method To Check Prime No. In Java?

```
findPrime.java Java
1 package simple.test;
2
3 import java.util.Scanner;
4
5 public class findPrime {
6
7     public static void main(String[] args) {
8         Scanner scan = new Scanner(System.in);
9         System.out.print("Enter an int value : ");
10        int input = scan.nextInt();
11        if (checkPrime(input)) {
12            System.out.println("Input value " + input + " is a prime number.");
13        } else {
14            System.out.println("Input value " + input
15                               + " is not a prime number.");
16        }
17    }
18
19    public static boolean checkPrime(int n) {
20        if (n <= 1) {
21            return false;
22        }
23        for (int i = 2; i < Math.sqrt(n); i++) {
24            if (n % i == 0) {
25                return false;
26            }
27        }
28        return true;
29    }
30 }
```

Question-5: Write A Java Program To Find Out The First Two Max Values From An Array?

```

findTwoMaxValue.java
1 package simple.test;
2
3 public class findTwoMaxValue {
4     public void GetTwoMaxValues(int[] nums) {
5
6         int maxOne = 0;
7         int maxTwo = 0;
8         for (int n : nums) {
9             if (maxOne < n) {
10                 maxTwo = maxOne;
11                 maxOne = n;
12             } else if (maxTwo < n) {
13                 maxTwo = n;
14             }
15         }
16     }
17
18     System.out.println("Max1 - " + maxOne);
19     System.out.println("Max2 - " + maxTwo);
20 }
21
22 public static void main(String[] args) {
23
24     int list[] = { 15, 24, 48, 21, 43, 11, 79, 93 };
25
26     findTwoMaxValue max = new findTwoMaxValue();
27     max.GetTwoMaxValues(list);
28 }
29 }

```

Question-6: Write A Java Program To Find The Longest Substring From A Given String Which Doesn't Contain Any Duplicate Characters?

```

findSubstr.java
1 package simple.test;
2
3 import java.util.HashSet;
4 import java.util.Set;
5
6 public class findSubstr {
7
8     private Set<String> stringSet = new HashSet<String>();
9     private int lstringSet = 0;
10
11     public Set<String> findStr(String input) {
12
13         // Reset instance data.
14         stringSet.clear();
15         lstringSet = 0;
16
17         // Set a boolean flag on each char's ASCII value.
18         boolean[] flag = new boolean[256];
19         int j = 0;
20         char[] inputCharArr = input.toCharArray();
21         for (int i = 0; i < inputCharArr.length; i++) {
22             char c = inputCharArr[i];
23             if (flag[c]) {
24                 extractSubString(inputCharArr, j, i);
25                 for (int k = j; k < i; k++) {
26                     if (inputCharArr[k] == c) {
27                         j = k + 1;
28                         break;
29                     }
30                     flag[inputCharArr[k]] = false;
31                 }
32             } else {
33                 flag[c] = true;
34             }
35         }
36         extractSubString(inputCharArr, j, inputCharArr.length);
37         return stringSet;
38     }
39
40     private String extractSubString(char[] inputArr, int start, int end) {
41
42         StringBuilder sb = new StringBuilder();
43         for (int i = start; i < end; i++) {
44             sb.append(inputArr[i]);
45         }
46         String subStr = sb.toString();
47     }
48 }

```

```

47         if (subStr.length() > lstringSet) {
48             lstringSet = subStr.length();
49             stringSet.clear();
50             stringSet.add(subStr);
51         } else if (subStr.length() == lstringSet) {
52             stringSet.add(subStr);
53         }
54     }
55     return sb.toString();
56 }
57
58 public static void main(String a[]) {
59     findSubstr substr = new findSubstr();
60
61     System.out
62         .println("Actual Strings ----- | ---- Longest Non-Repeated Strings");
63     System.out.println("Software_Programmer"
64         + " | " + substr.findStr("Software_Programmer"));
65     System.out.println("Software_Developer_In_Test"
66         + " | " + substr.findStr("Software_Developer_In_Test"));
67     System.out.println("developers_write_unit_tests"
68         + " | " + substr.findStr("developers_write_unit_tests"));
69     System.out.println("javajavbasp.net"
70         + " | " + substr.findStr("javajavbasp.net"));
71 }
72 }
73 }

```

Question-7: Write Java Code To Get Rid Of Multiple Spaces From A String?

removeExtraSpaces.java	Java
1	package simple.test;
2	
3	import java.util.StringTokenizer;
4	
5	public class removeExtraSpaces {
6	
7	public static void main(String args[]){
8	
9	String input = "Try to remove extra spaces.";
10	StringTokenizer substr = new StringTokenizer(input, " ");
11	StringBuffer sb = new StringBuffer();
12	
13	while(substr.hasMoreElements()){
14	sb.append(substr.nextElement()).append(" ");
15	}
16	
17	System.out.println("Actual string: " + input);
18	System.out.println("Processed string: " + sb.toString().trim());
19	}
20	}

Question-8: Write Java Code To Identify A Number As Palindrome?

identifyPalindrome.java	Java
1	package simple.test;
2	
3	import java.io.BufferedReader;
4	import java.io.InputStreamReader;
5	
6	public class identifyPalindrome {
7	
8	public static void main(String[] args) {
9	
10	try {
11	BufferedReader object = new BufferedReader(new InputStreamReader(
12	System.in));
13	System.out.println("Input number");
14	int inputValue = Integer.parseInt(object.readLine());
15	int n = inputValue;
16	int rev = 0;
17	System.out.println("Input value is : ");
18	System.out.println(" " + inputValue);
19	for (int i = 0; i <= inputValue; i++) {
20	int r = inputValue % 10;
21	inputValue = inputValue / 10;
22	rev = rev * 10 + r;
23	i = 0;
24	}
25	System.out.println("Post reversal : " + " ");
26	System.out.println(" " + rev);
27	if (n == rev) {
28	System.out.print("Input value is a palindrome.");
29	} else {
30	System.out.println("Input value is not a palindrome.");
31	}
32	} catch (Exception e) {

```
32     } catch (Exception e) {  
33         System.out.println("Out of Range.");  
34     }  
35 }  
36 }
```

Question-9: Write Java Code To Swap Two Numbers Without Using A Temporary Variable?

```
smartSwapping.java Java  
1 package simple.test;  
2  
3 public class smartSwapping {  
4  
5     public static void main(String args[]) {  
6  
7         int numX = 10;  
8         int numY = 20;  
9         System.out.println("Pre-swapping state:");  
10        System.out.println("numX value: " + numX);  
11        System.out.println("numY value: " + numY);  
12  
13        System.out.println("");  
14  
15        numX = numX + numY;  
16        numY = numX - numY;  
17        numX = numX - numY;  
18        System.out.println("Post-swapping state:");  
19        System.out.println("numX value: " + numX);  
20        System.out.println("numY value: " + numY);  
21    }  
22 }
```

Question-10: Write A Java Program To Demonstrate String Reverse With And Without StringBuffer Class?

```
invertString.java Java  
1 package simple.test;  
2  
3 public class invertString {  
4  
5     public String invertWithStringBuffer(String str) {  
6  
7         StringBuffer buffer = new StringBuffer(str);  
8         buffer.reverse();  
9         return buffer.toString();  
10    }  
11  
12    public String invertWithoutStringBuffer(String str) {  
13  
14        int length = str.length();  
15        String original = str;  
16        String invert = "";  
17        for (int i = length - 1; i >= 0; i--) {  
18            invert = invert + original.charAt(i);  
19        }  
20        return invert;  
21    }  
22  
23    public static void main(String[] args) {  
24  
25        invertString invertStr = new invertString();  
26  
27        System.out.println("Inverted String with StringBuffer class: "  
28            + invertStr.invertWithStringBuffer("987654321"));  
29  
30        System.out.println("");  
31  
32        System.out.println("Inverted String without StringBuffer class: "  
33            + invertStr.invertWithoutStringBuffer("kjihgfedcba"));  
34    }  
35 }
```

If you recently gave any Selenium Webdriver interview and faced similar or different Java coding questions. Then, please do write to us and help us increase our interview question bank. It'll be a great help not only us but for the other readers of this blog. We'll surely add your submissions to our list of Java coding questions. And, you'll get a direct mention on our blog.

Summary - Java Coding Questions For Test Automation Developers.

Java programming language is one of the pre-requisites for Selenium Webdriver automation. It supports many languages like Python, C#, Ruby, and Perl. Though, our principal goal is to make you self-sufficient in Java and Python programming. So that, you can use these skills in different conditions be it for automation testing or software development. Because of these obvious reasons, we delivered this set of top 10 Java coding questions for the job seekers.

Message: We believe that this blog post “*Top 10 Java Coding Questions for Test Automation Developers*” would surely help to improve your test automation skills. If you have liked this post, then please share it further to extend the benefit to a larger audience.

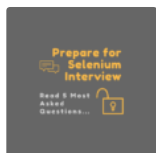
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VINAY

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Find out largest palindrome from a given string.

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