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 us.

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

package simple.test;

import java.util.ArrayList;

import java.util.HashSet;

import java.util.List;

import java.util.Set;

public class findDuplicates {

public static void main(String[] args) {

ArrayList<String> list = new ArrayList<String>();

// Form a list of numbers from 0-9.

for (int i = 0; i < 10; i++) {

list.add(String.valueOf(i));

}

// Insert a new set of numbers from 0-5.

for (int i = 0; i < 5; i++) {

list.add(String.valueOf(i));

}

System.out.println("Input list : " + list);

System.out.println("\nFiltered duplicates : " + processList(list));

}

public static Set<String> processList(List<String> listContainingDuplicates) {

final Set<String> resultSet = new HashSet<String>();

final Set<String> tempSet = new HashSet<String>();

for (String yourInt : listContainingDuplicates) {

if (!tempSet.add(yourInt)) {

resultSet.add(yourInt);

}

}

return resultSet;

}

}

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

package simple.test;

import java.util.Arrays;

public class sortStrings {

public static void main(String[] args) throws Exception {

String[] inputList = { "Jan", "Feb", "Mar", "Apr", "May", "Jun", "Jul",

"aug", "Sep", "Oct", "nov", "Dec" };

// Display input un-sorted list.

System.out.println("-------Input List-------");

showList(inputList);

// Call to sort the input list.

Arrays.sort(inputList);

// Display the sorted list.

System.out.println("\n-------Sorted List-------");

showList(inputList);

// Call to sort the input list in case-sensitive order.

System.out.println("\n-------Sorted list (Case-Sensitive)-------");

Arrays.sort(inputList, String.CASE\_INSENSITIVE\_ORDER);

// Display the sorted list.

showList(inputList);

}

public static void showList(String[] array) {

for (String str : array) {

System.out.print(str + " ");

}

System.out.println();

}

}

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

package simple.test;

public class invertNumber {

public long doInvert(long number) {

long invert = 0;

while (number != 0) {

invert = (invert \* 10) + (number % 10);

number = number / 10;

}

return invert;

}

public static void main(String args[]) {

long lnum = 654321;

invertNumber input = new invertNumber();

System.out.println("Input value : " + lnum);

System.out.println("Inverted value : " + input.doInvert(lnum));

}

}

**Further Reading:**

[**Top 20 Selenium Coding Tips for Software Testers.**](http://www.techbeamers.com/selenium-webdriver-coding-tips/)

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

package simple.test;

import java.util.Scanner;

public class findPrime {

public static void main(String[] args) {

Scanner scan = new Scanner(System.in);

System.out.print("Enter an int value : ");

int input = scan.nextInt();

if (checkPrime(input)) {

System.out.println("Input value " + input + " is a prime number.");

} else {

System.out.println("Input value " + input

+ " is not a prime number.");

}

}

public static boolean checkPrime(int n) {

if (n <= 1) {

return false;

}

for (int i = 2; i < Math.sqrt(n); i++) {

if (n % i == 0) {

return false;

}

}

return true;

}

}

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

package simple.test;

public class findTwoMaxValue {

public void GetTwoMaxValues(int[] nums) {

int maxOne = 0;

int maxTwo = 0;

for (int n : nums) {

if (maxOne < n) {

maxTwo = maxOne;

maxOne = n;

} else if (maxTwo < n) {

maxTwo = n;

}

}

System.out.println("Max1 - " + maxOne);

System.out.println("Max2 - " + maxTwo);

}

public static void main(String[] args) {

int list[] = { 15, 24, 48, 21, 43, 11, 79, 93 };

findTwoMaxValue max = new findTwoMaxValue();

max.GetTwoMaxValues(list);

}

}

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

package simple.test;

import java.util.HashSet;

import java.util.Set;

public class findSubstr {

private Set<String> stringSet = new HashSet<String>();

private int lstringSet = 0;

public Set<String> findStr(String input) {

// Reset instance data.

stringSet.clear();

lstringSet = 0;

// Set a boolean flag on each char's ASCII value.

boolean[] flag = new boolean[256];

int j = 0;

char[] inputCharArr = input.toCharArray();

for (int i = 0; i < inputCharArr.length; i++) {

char c = inputCharArr[i];

if (flag[c]) {

extractSubString(inputCharArr, j, i);

for (int k = j; k < i; k++) {

if (inputCharArr[k] == c) {

j = k + 1;

break;

}

flag[inputCharArr[k]] = false;

}

} else {

flag[c] = true;

}

}

extractSubString(inputCharArr, j, inputCharArr.length);

return stringSet;

}

private String extractSubString(char[] inputArr, int start, int end) {

StringBuilder sb = new StringBuilder();

for (int i = start; i < end; i++) {

sb.append(inputArr[i]);

}

String subStr = sb.toString();

if (subStr.length() > lstringSet) {

lstringSet = subStr.length();

stringSet.clear();

stringSet.add(subStr);

} else if (subStr.length() == lstringSet) {

stringSet.add(subStr);

}

return sb.toString();

}

public static void main(String a[]) {

findSubstr substr = new findSubstr();

System.out

.println("Actual Strings ------------ | ---- Longest Non-Repeated Strings");

System.out.println("Software\_Programmer"

+ " | " + substr.findStr("Software\_Programmer"));

System.out.println("Software\_Developer\_In\_Test"

+ " | " + substr.findStr("Software\_Developer\_In\_Test"));

System.out.println("developers\_write\_unit\_tests"

+ " | " + substr.findStr("developers\_write\_unit\_tests"));

System.out.println("javajavbasp.net"

+ " | " + substr.findStr("javajavbasp.net"));

}

}

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

package simple.test;

import java.util.StringTokenizer;

public class removeExtraSpaces {

public static void main(String args[]){

String input = "Try to remove extra spaces.";

StringTokenizer substr = new StringTokenizer(input, " ");

StringBuffer sb = new StringBuffer();

while(substr.hasMoreElements()){

sb.append(substr.nextElement()).append(" ");

}

System.out.println("Actual string: " + input);

System.out.println("Processed string: " + sb.toString().trim());

}

}

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

package simple.test;

import java.io.BufferedReader;

import java.io.InputStreamReader;

public class identifyPalindrome {

public static void main(String[] args) {

try {

BufferedReader object = new BufferedReader(new InputStreamReader(

System.in));

System.out.println("Input number");

int inputValue = Integer.parseInt(object.readLine());

int n = inputValue;

int rev = 0;

System.out.println("Input value is : ");

System.out.println(" " + inputValue);

for (int i = 0; i <= inputValue; i++) {

int r = inputValue % 10;

inputValue = inputValue / 10;

rev = rev \* 10 + r;

i = 0;

}

System.out.println("Post reversal : " + " ");

System.out.println(" " + rev);

if (n == rev) {

System.out.print("Input value is a palindrome.");

} else {

System.out.println("Input value is not a palindrome.");

}

} catch (Exception e) {

System.out.println("Out of Range.");

}

}

}

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

package simple.test;

public class smartSwapping {

public static void main(String args[]) {

int numX = 10;

int numY = 20;

System.out.println("Pre-swapping state:");

System.out.println("numX value: " + numX);

System.out.println("numY value: " + numY);

System.out.println("");

numX = numX + numY;

numY = numX - numY;

numX = numX - numY;

System.out.println("Post-swapping state:");

System.out.println("numX value: " + numX);

System.out.println("numY value: " + numY);

}

}

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

package simple.test;

public class invertString {

public String invertWithStringBuffer(String str) {

StringBuffer buffer = new StringBuffer(str);

buffer.reverse();

return buffer.toString();

}

public String invertWithoutStringBuffer(String str) {

int length = str.length();

String original = str;

String invert = "";

for (int i = length - 1; i >= 0; i--) {

invert = invert + original.charAt(i);

}

return invert;

}

public static void main(String[] args) {

invertString invertStr = new invertString();

System.out.println("Inverted String with StringBuffer class: "

+ invertStr.invertWithStringBuffer("987654321"));

System.out.println("");

System.out.println("Inverted String without StringBuffer class: "

+ invertStr.invertWithoutStringBuffer("kjihgfedcba"));

}

}