

Questions

1.

```
public class Question1 {  
    public static void main(String[] args) {  
        int[] arr= {-124,-11187,-128,-1157,-152,-21};  
        if(arr.length==0) {  
            System.out.println("No integers in the array");  
            System.exit(0);  
        }  
        int max=Integer.MIN_VALUE;  
        for (int i = 0; i < arr.length; i++) {  
            if(max<arr[i]) {  
                max=arr[i];  
            }  
        }  
        System.out.println("Largest number is "+max);  
    }  
}
```

Output:- Largest number is -21

2.

```
public class Question2 {  
  
    public static void main(String[] args) {  
        //BitwiseOR between current and next number in an array  
  
        int[] arr= {11,20,14,1,53,12};  
        int[] bitarr=new int[arr.length-1];  
  
        for (int i = 0; i < bitarr.length; i++) {  
            bitarr[i]=arr[i]|arr[i+1];  
        }  
        for (int i = 0; i < bitarr.length; i++) {  
            System.out.print(bitarr[i]+" ");  
        }  
    }  
}
```

```

    }

}
/*
 * Explanation:-
 * 11 | 20 = 31 stored at index 0 of resultant array
 */

```

Output:- 31 30 15 53 61

```

3. public class Question3 {
    public static void main(String[] args) {
        String str = "Java Programming";
        char arr[] = new char[10];
        str.getChars(0, 4, arr, 3);
        System.out.println(arr);

    }
}

```

Output

Java

Explanation

The syntax of the method is:

getChars(startindex, numofCharacters, arrayName, space).

So from the string, starting from 0th index, first four characters are taken and 3 spaces are provided.

```

4. public class Question4 {
    public static void main(String[] args) {
        String str = "Java Programming";
        System.out.println(str.replace('a', '9'));
    }
}

```

Output

J9v9 Progr9mming

Explanation

Here all the a in str = "Java Programming" are replaced with 9.

```
5. public class Question5 {  
    public static void main(String[] args) {  
        String test = "a1b2c3";  
        String[] tokens = test.split("\\d");  
        for(String s: tokens)  
            System.out.print(s);  
    }  
}
```

Output

abc

Explanation

Split method available in String class uses Regular Expressions to split the strings.

//d refers to split the string based on digits

String tokens[] = s.split("//d") gives the array as {a,b,c}

```
6. public class Question6 {  
    public static void main(String[] args) {  
        String s1 = "s1 = " + "123" + "456";  
        String s2 = "s2 = " + (123+456);  
        System.out.println(s1);  
        System.out.println(s2);  
    }  
}
```

Output

s1 = 123456

s2 = 579

Explanation

In string s1 123 and 456 are string as they are stored between double quotes so they are not added but in string s2 123 and 456 are added as they are not string i.e they are inside bracket.

```
7. public class Question7  
{  
    public int getData() //getdata() 1  
    {
```

```

        return 0;
    }

    public long getData() //getdata 2
    {
        return 1;
    }

    public static void main(String[] args)
    {
        Test obj = new Test();
        System.out.println(obj.getData());
    }
}

```

Output

Compilation error

Explanation

For method overloading, **methods must have different signatures**. Return type of methods does not contribute towards different method signature, so the code above give compilation error. Both getdata 1 and getdata 2 only differ in return types and NOT signatures.

8.

```

public class Question8{
    public static void main(String[] args)
    {
        int x = 1, y = 2;
        do
            System.out.println("FRIENDS");
        while (x < y);
        System.out.println("ENEMY");
    }
}

```

Options:

1. FRIENDS
2. ENEMY
3. No Output

4. FRIENDS (Infinitely)

The answer is option (4)

Explanation

Because there is no updation

```
9. public class Question9 {
    public static void main(String[] args) {
        // Divide arrays into two equal parts then multiply their sum
        int[] arr = {1, 2, 3, 4, 5, 6, 7, 8};
        int firstPart=0,secondPart=0;
        for (int i = 0,j=arr.length-1; i < j; i++,j--) {
            firstPart+=arr[i];
            secondPart+=arr[j];
        }
        System.out.println("Product of first and second sub-array is "+(firstPart*secondPart));
    }
}
```

Output :- Product of first and second sub-array is 260

```
10 class Question10 {
public static void main(String[] args)
{
    do {
        System.out.print(1);
        do {
            System.out.print(2);
        } while (false);
    } while (false);
}
}
```

Output :- 12

```
12. public class A {
    public static void main(String[] args)
    {
        System.out.println('j' + 'a' + 'v' + 'a');
```

```
    }  
}
```

Output

418

(106 + 97 + 118 + 97 = 418)

```
13. public class Question4 {  
    public static void main(String[] args) {  
        // Find minimum product possible in array  
        int[] arr= {2, 7, 3, 4, 8, 5};  
        int min=Integer.MAX_VALUE;  
        // if we initialise min with 0 it will be always less than any of the product.  
        for (int i = 0; i < arr.length-1; i++) {  
            for (int j = i+1; j < arr.length; j++) {  
                int product=arr[i]*arr[j];  
                if(min>product)min=product;  
            }  
        }  
        System.out.println("Minimum possible product is "+min);  
    }  
}
```

Output :- Minimum possible product is 6

```
14. class MainClass {  
    public static void main(String[] args)  
    {  
        int x = 10;  
        int y = 20;  
        switch (x) {  
            case 10:  
                System.out.println("HELLO");  
                break;  
            case y:  
                System.out.println("GEEKS");  
                break;  
        }  
    }  
}
```

```
}  
}
```

Output

Compile time error

(case label should be constant)

```
15. class Test1 {  
    public static void main(String[] args)  
    {  
        int arr[] = { 11, 22, 33 };  
        for (int i = 0; i < arr.length; i++)  
            System.out.print(arr[i] + " ");  
  
        System.out.println();  
  
        int arr2[] = new int[3];  
        arr2[] = { 11, 22, 33 };  
        for (int i = 0; i < arr2.length; i++)  
            System.out.print(arr2[i] + " ");  
    }  
}
```

Output

Error

(arr2 is not a valid syntax)

```
16. public class Question16 {  
  
    public static void main(String[] args) {  
        /* Date fine array and car numbers in array is given.  
        * Collect fine from odd number car if date is even and vice versa.  
        * Calculate total fine collected.  
        */  
        int[] cars= {2375, 7682, 2325, 2352};  
        int[] fine = {250, 500, 350, 200};  
        int date = 1+(int)(Math.random()*31);  
        boolean oddNumber=date%2==0;  
        int totalFine=0;  
        for (int i = 0; i < cars.length; i++) {  
            if(oddNumber==(cars[i]%2==1)) {
```

```

        totalFine+=fine[i];
    }
}
System.out.println("Total fine collected on date "+date+" is "+totalFine);
}

}

```

Output:- Total fine collected on date 9 is 700

```

17. public class Question17 {
    //This Question is quite difficult
    public static void main(String[] args) {
        // rotate array to the left
        // [1,2,3,4,5] -> [2,3,4,5,1] -> [3,4,5,1,2] just like this if rotate by is 3

        int[] arr= {1,2,3,4,5};
        int[] res=new int[arr.length];
        int rotateBy=2;
        int size=arr.length;
        for (int i = size-1; i >=0; i--) {
            if(i-rotateBy<0) {if rotation goes before index 0 rotate it to rightmost;
                res[size - Math.abs(rotateBy - i)]=arr[i];
            }
            else {
                res[i-rotateBy]=arr[i];
            }
        }
        for (int i = 0; i < res.length; i++) {
            System.out.print(res[i]+" ");
        }
    }
}

```

Output:- 3 4 5 1 2

Explanation [1,2,3,4,5] -> [2,3,4,5,1] -> [3,4,5,1,2]

-

18.

```

public class Question18 {

```



```

        public static void main(String[] args) {
            // Find maximum and minimum numbers in array
            int[] arr={1, 345, 234, 21, 56789,-3, 2, -1, 56, 10000, 167};
            int max=Integer.MIN_VALUE,min=Integer.MAX_VALUE;
            for (int i = 0; i < arr.length; i++) {
                if(arr[i]<min)min=arr[i];
                else if(arr[i]>max)max=arr[i];
                // else if is used because either the number is maximum or minimum
            }
            System.out.println("Maximum number is "+max+" Minimum number is "+min);
        }
    }
}

```

Output:- Maximum number is 56789 Minimum number is -345

19.

```

public class Question19{

    public static void main(String[] args) {
        String org = "This is my java program";
        String search = "is";
        String sub = org.substring(5, 7);
        boolean label = true;
        if (sub == search) {
            System.out.print(label);
        } else {
            System.out.print(!label);
        }
    }
}

```

Output:- False

20.

```

public class Question20{

    public static void main(String[] args)
    {
        String s = "Banana Panama Vikrama Akram Dwakra";
        print(s.indexOf("na"));
        print(s.indexOf("na", s.indexOf("na")));
        print(s.lastIndexOf("na"));
    }
}

```

```

        print(s.lastIndexOf("akr"));
        print(s.lastIndexOf("akr", s.lastIndexOf("akr")));
        System.out.println(s.substring(s.indexOf("ik")-1, s.lastIndexOf("wa")-s.indexOf("Pana")-1));
    }

    private static void print(int value)
    {
        System.out.print(value + "~");
    }
}

```

Output:-

2~2~9~30~30~Vikrama

21.

```

public class Question21{
    public static void main(String args[])
    {
        String str = "Good Day.\n This is java program.";
        System.out.println(removeCharAt(str, 9));
    }
    public static String removeCharAt(String s, int pos)
    {
        return s.substring(0, pos) + s.substring(pos + 1);
    }
}

```

Output:-

Good Day. This is java program.

22.

```

public class Question22{

    public static void main(String a[]){
        String result = frontTimes("Chocolate", 5);
        System.out.println(result);
    }
}

```

```

public static String frontTimes(String str, int n){
    String result = "";
    if (str.length() > 3){
        for (int i = 0; i < n; i++){
            result += str.substring(0, 3);
        }
    }
    else {
        for (int i = 0; i < n; i++) {
            result += str;
        }
    }
    return result;
}

```

Output:-

ChoChoChoChoCho

23.

```

public class Question23{
    public static void main(String[] args) {
        String myStr = "Hello planet earth, you are a great planet.";
        System.out.println(myStr.indexOf("e", 5));
    }
}

```

Output:-

10

24.

```

public class Question24{
    public static void main(String[] args) {

        String str = "w3resource.com";
        System.out.println("Original String : " + str);

        // codepoint at index 1
        int val1 = str.codePointAt(1);

        // codepoint at index 9
    }
}

```

```

        int val2 = str.codePointAt(9);

        // prints character at index1 in string
        System.out.println("Character(unicode point) = " + val1);
        // prints character at index9 in string
        System.out.println("Character(unicode point) = " + val2);
    }
}

```

Output:-

Original String : w3resource.com
 Character(unicode point) = 51
 Character(unicode point) = 101

```

25. public class Question25{
    public static void main(String[] args)
    {
        String str1 = "This is Exercise 1";
        String str2 = "This is Exercise 2";

        System.out.println("String 1: " + str1);
        System.out.println("String 2: " + str2);

        // Compare the two strings.
        int result = str1.compareTo(str2);

        // Display the results of the comparison.
        if (result < 0)
        {
            System.out.println "\"" + str1 + "\"" +
                " is less than " +
                "\"" + str2 + "\"";
        }
        else if (result == 0)
        {
            System.out.println "\"" + str1 + "\"" +
                " is equal to " +
                "\"" + str2 + "\"";
        }
    }
}

```

```

        else // if (result > 0)
        {
            System.out.println("\"" + str1 + "\"" +
                " is greater than " +
                "\"" + str2 + "\"");
        }
    }
}

```

Output:-

String 1: This is Exercise 1

String 2: This is Exercise 2

"This is Exercise 1" is less than "This is Exercise 2"

26.

```

public class Question26{
    public static void main(String [] args) {
        String str1 = "example.com", str2 = "Example.com";
        String cs = "example.com";
        System.out.println("Comparing "+str1+" and "+cs+": " + str1.contentEquals(cs));
        System.out.println("Comparing "+str2+" and "+cs+": " + str2.contentEquals(cs));
    }
}

```

Output:-

Comparing example.com and example.com: true

Comparing Example.com and example.com: false

27.

```

public class Question27{
    public static void main(String[] args)
    {
        // Character array with data.
        char[] arr_num = new char[] { '1', '2', '3', '4' };

        // Create a String containig the contents of arr_num
        // starting at index 1 for length 2.
        String str = String.copyValueOf(arr_num, 1, 3);

        // Display the results of the new String.
    }
}

```

```

        System.out.println("\nThe book contains " + str + " pages.\n");
    }
}

```

Output:-

The book contains 234 pages.

28.

```

public class Question28{
    public static void main(String[] args)
    {
        String str = "The quick brown fox jumps over the lazy dog.";

        // Get a substring of the above string starting from
        // index 10 and ending at index 26.
        String new_str = str.substring(10, 26);

        // Display the two strings for comparison.
        System.out.println("old = " + str);
        System.out.println("new = " + new_str);
    }
}

```

Output:-

old = The quick brown fox jumps over the lazy dog.
new = brown fox jumps

29. public class Question29{

```

    public static void main(String[] args)
    {
        String str = "The Quick BroWn FoX!";

        // Convert the above string to all lowercase.
        String lowerStr = str.toLowerCase();

        // Display the two strings for comparison.
        System.out.println("Original String: " + str);
        System.out.println("String in lowercase: " + lowerStr);
    }
}

```

Output:-

Original String: The Quick BroWn FoX!

String in lowercase: the quick brown fox!

30.

```
public class Question30{
    public static void main(String[] args) {
        String str1 = "gibblegabbler";
        System.out.println("The given string is: " + str1);
        for (int i = 0; i < str1.length(); i++) {
            boolean unique = true;
            for (int j = 0; j < str1.length(); j++) {
                if (i != j && str1.charAt(i) == str1.charAt(j)) {
                    unique = false;
                    break;
                }
            }
            if (unique) {
                System.out.println("The first non repeated character in String is: " + str1.charAt(i));
                break;
            }
        }
    }
}
```

Output:-

The given string is: gibblegabbler

The first non repeated character in String is: i

31.

```
public class Question31{
    public static void main(String[] args) {
        String str1 = "the quick brown fox";
        String str2 = "queen";
        System.out.println("The given string is: " + str1);
        System.out.println("The given mask string is: " + str2);
        char arr[] = new char[str1.length()];
        char[] mask = new char[256];
        for (int i = 0; i < str2.length(); i++)
            mask[str2.charAt(i)]++;
    }
}
```

```

        System.out.println("\nThe new string is: ");
        for (int i = 0; i < str1.length(); i++) {
            if (mask[str1.charAt(i)] == 0)
                System.out.print(str1.charAt(i));
        }
    }
}

```

Output:-

The given string is: the quick brown fox

The given mask string is: queen

The new string is:

th ick brow fox

.....

32.

```

public class Question32{
    static final int N = 256;
    static char MaxOccuringChar(String str1) {
        int ctr[] = new int[N];
        int l = str1.length();
        for (int i = 0; i < l; i++)
            ctr[str1.charAt(i)]++;
        int max = -1;
        char result = ' ';

        for (int i = 0; i < l; i++) {
            if (max < ctr[str1.charAt(i)]) {
                max = ctr[str1.charAt(i)];
                result = str1.charAt(i);
            }
        }

        return result;
    }

    public static void main(String[] args) {
        String str1 = "test string";
        System.out.println("The given string is: " + str1)
    }
}

```



```
System.out.println("Max occurring character in the given string is: " + MaxOccuringChar(str1));  
}
```

```
}
```

Output:-

The given string is: test string

Max occurring character in the given string is: t

33.

```
public class Question33  
{  
    public static void main(String args[])  
    {  
        String str1 = "java";  
        char arr[] = { 'j', 'a', 'v', 'a', ' ', 'p',  
            'r', 'o', 'g', 'r', 'a', 'm', 'm', 'i', 'n', 'g' };  
        String str2 = new String(arr);  
        System.out.println(str1);  
        System.out.println(str2);  
    }  
}
```

Output:-

java

java programming

34 .public class Question34{

```
    public static void main(String[] args) {  
        // Check for Arithmetic Progression in array  
        int d = 31;  
        int[] arr= {97,128,159,190,221,252,283,314,345};  
        int a=arr[0];  
        boolean inAP=true;  
        for (int i = 0,j=a; i < arr.length; i++,j+=d) {  
            if(arr[i]!=j) {  
                inAP=false;  
                break;  
            }  
        }  
    }
```

```

        System.out.println("Is this array in AP ? "+inAP);
    }
}

```

Output :- Is this array in AP ? true

35.

```

public class Question35{
    public static void main(String args[]){
        //there are 2 's' characters in this sentence
        String s1="this is index of example";
        //returns last index of 's' char value
        int index1=s1.lastIndexOf('s');
        System.out.println(index1); //6
    }
}

```

Output:-

6

36.Which of these is not the correct answer?

```

public static void main(String[] args) {
    for(int i=0;i<3;i++) {
        for(int j=0;j<2;j++) {
            int number = (int)(Math.random()*5);
            System.out.println(number);
        }
    }
}

```

- }
 A.2
 B.3
 C.4
 D.5

Correct answer-D

37.What will be the value of y?

```

public static void main(String[] args) {

```

```

        int x=2,y=50;
        do
        {
            ++x;
            y-=x++;
        }
        while(x<=10);
        System.out.println(y);

    }
}

```

Output-15

38.What will be the output?

```

String arr[]= {"DELHI", "CHENNAI", "MUMBAI", "LUCKNOW", "JAIPUR"};
System.out.println(arr[0].length()> arr[3].length());
System.out.print(arr[4].substring(0,3));

```

Output-

false
JAI

39. What will be the output?

```

public class Test
{
    public static void main(String[] args)
    {
        for (int i = 0; i < 1; System.out.println("WELCOME"))
        {
            System.out.println("GEEKS");
        }
    }
}

```

Output-

GEEKS WELCOME(Infinitely)

40.public class Question40 {

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

```
    String s = "friends";
```

```
    int x = 0;
```

```
    do {
```

```
        System.out.print(s.charAt(x));
```

```
        x++ ;
```

```
    } while (x < 2);
```

```
}
```

```
}
```

(A) friends

(B) friend

(C) fr

(D) compilation Error

Correct Answer-C

38.

```
public class Question38 {  
    public static void main(String args[]){  
        //there are 2 's' characters in this sentence  
        String s1="this is index of example";  
        //returns last index of 's' char value  
        int index1=s1.lastIndexOf('s');  
        System.out.println(index1);//6  
    }  
}
```

Output:-

6

39.

```
public class Question39 {  
    public static void main(String[] args) {  
        String str = "This is last index of example";  
        int index = str.lastIndexOf("of");  
        System.out.println(index);  
    }  
}
```

```
}  
}
```

Output:-

19

40.

```
public class Question40 {  
    public static void main(String[] args) {  
        String str = "This is last index of example";  
        int index = str.lastIndexOf("of", 25);  
        System.out.println(index);  
        index = str.lastIndexOf("of", 10);  
        System.out.println(index); // -1, if not found  
    }  
}
```

Output:-

19

-1

41.

```
public class Question41 {  
    public static void main(String[] args) {  
        String s1="javatpoint";  
        String s2="javatpoint";  
        String s3="JAVATPOINT";  
        String s4="python";  
  
        //true because content and case both are same  
        System.out.println(s1.equalsIgnoreCase(s2));  
  
        //true because case is ignored  
        System.out.println(s1.equalsIgnoreCase(s3));  
  
        //false because content is not same  
        System.out.println(s1.equalsIgnoreCase(s4));  
    }  
}
```

Output:-

true

true

false

42.

```
public class Question42 {  
    public static void main(String[] args) {  
        String s1="hello";  
        String s2="hello";  
        String s3="meklo";  
        String s4="hemlo";  
        String s5="flag";  
  
        //0 because both are equal  
        System.out.println(s1.compareTo(s2));  
  
        //-5 because "h" is 5 times lower than "m"  
        System.out.println(s1.compareTo(s3));  
  
        //-1 because "l" is 1 times lower than "m"  
        System.out.println(s1.compareTo(s4));  
  
        //2 because "h" is 2 times greater than "f"  
        System.out.println(s1.compareTo(s5));  
    }  
}
```

Output:-

0

-5

-1

2

43. What is the output of the following program?

```
public class Question43  
{  
    public int getData()  
    {
```

```

        return 0;
    }
    public long getData()
    {
        return 1;
    }
    public static void main(String[] args)
    {
        Test obj = new Test();
        System.out.println(obj.getData());
    }
}

```

- a) 1
- b) 0
- c) Runtime error
- d) Compilation error

Ans. (d)

44. public class Question44{

```

    public static void main(String[] args) {
        String s1 = "HELLO ITERIANS";
        String s2 = " Hello Iterians ";
        System.out.print(s1.equals(s2.trim()));
        System.out.print(s1.equalsIgnoreCase(s2.trim()));
        System.out.print(s1.equals(s2)); //false
        System.out.print(s1.equalsIgnoreCase(s2));
    }
}

```

Output : false true false true

45. public class Question45{

```

    public static void main(String[] args) {

String s1 = "Hello";
        String s2 = "Hello";
        String s3 = new String("Hello");
    }
}

```

```

        if(s1 == s2 ) {
            if(s1 == s3)
System.out.println("s1, s2 and s3 are references to the same string object.");
            else
System.out.println("s1 and s2 are references to the same string object but not s3");
        }
        else
System.out.println("s1 and s2 are references to two different string object.");
    }
}

```

Output: s1 and are reference to the same String object but not s3

```

46. public class Question46{
    public static void main(String[] args) {

char[] ch = {'s', 'o', 'a', 'i', 't', 'e', 'r'};
        String str = new String(ch);
        for(int i = 0; i < str.length(); i++) {
            System.out.print(str.substring(++i) + " ");
        }
        System.out.println(str);
    }
}

```

Output: oaiter iter er soaiter

```

47.
public class Question4{
    public static void main(String[] args) {
String str = new String("hahaha");
        System.out.print(str.contains("haha"));
        String s1 = " " + str.substring(0, 4).toUpperCase();
        s1 += "....";
        System.out.println(s1);
    }
}

```

Output: true HAHA....

.....

48.

```
public class Question48{
    public static void main(String[] args) {
        int i = 4;
        int[] arr = new int[i];
        arr[i-1] = 56;
        arr[i-2] = 67;
        arr[i-4] = 34;
        for(int j = 0; j < arr.length; j++) {
            System.out.print(arr[j] + " ");
        }
    }
}
```

Output: 34 0 67 56

.....

```
49.public class Question49{
    public static void main(String[] args) {
char[] arr = new char[10];
        for(int i = 0; i < arr.length; i++) {
            System.out.print((int)arr[i] + " ");
        }
    }
}
```

Output: 0 0 0 0 0 0 0 0 0 0

.....

50.

```
public class Question50{
    public static void main(String[] args) {
String[] arr = {"ITER", "KIIT", "CET", "IIIT", "IITBBSR"};
        for(int i = 1; i <= arr.length; i++) {
            System.out.println(arr[i-1].substring(0, i));
        }
    }
}
```

Output:

I

KI

51.

```
public class Question51{  
    public static void main(String[] args) {  
        int[] arr = {1, 2, 3};  
        for(int i = 0; i < arr.length; i++) {  
            System.out.print(arr[i]);  
            for(int j = 0; j <= i; j++)  
                System.out.print("Hello");  
            System.out.print(" ");  
        }  
    }  
}
```

Output: 1Hello 2HelloHello 3HelloHelloHello

Explanation: For method overloading, methods must have different signatures.

Return type of methods does not contribute towards different method signature, so the code above gives compilation error.

Both getdata 1 and getdata 2 only differ in return types and NOT signatures.

52.What is the output of the following program?

```
public class Question52  
{  
    void show()  
    {  
        System.out.println("SHOW Method..");  
        return;  
    }  
    public static void main(String[] args)  
    {  
        TestingMethods2 t2 = new TestingMethods2();  
        t2.show();  
    }  
}
```

A) SHOW Method

B) No output

C) Compiler error

D) None

A

Explanation:

Yes. A void method can use an empty return statement.

53.What is the output of the below Java program with a "this" operator?

```
public class Question53
{
    int cakes=5;
    void order(int cakes)
    {
        this.cakes = cakes;
    }
    public static void main(String[] args)
    {
        TestingMethods4 t4 = new TestingMethods4();
        t4.order(10);
        System.out.println("CAKES=" + t4.cakes);
    }
}
```

A) CAKES=5

B) CAKES=0

C) CAKES=10

D) Compile error

C

Explanation:

In the program, this.cakes refers to the instance variable cakes.

54.

```
public class Question54{
    public static void main(String[] args)
    {
        StringBuffer s = new StringBuffer("Geeksfor");
        s.append("Geeks");
    }
}
```

```
// returns GeeksforGeeks
System.out.println(s);
s.append(1);

// returns GeeksforGeeks1
System.out.println(s);
}
}
```

Output:-

GeeksforGeeks
GeeksforGeeks1

55.

```
public class Question55 {
    public static void main(String[] args)
    {
        StringBuffer s = new StringBuffer("GeeksGeeks");
        s.reverse();
        System.out.println(s); // returns skeeGrofskeeG
    }
}
```

Output:-

skeeGskeeG

56.

```
public class Question56 {
    public static void main(String[] args)
    {
        for (int k = 0; k < 20; k+=2) {
            if (k % 3 == 1)
                System.out.println(k + " ");
        }
    }
}
```

- A. 0 2 4 6 8 10 12 14 16 18
- B. 0 6 12 18
- C. 1 4 7 10 13 16 19
- D. 4 10 16

Answer-D

This will loop with k having a value of 0 to 18 (it will stop when k = 20).

It will print out the value of k followed by a space when the remainder of dividing k by 3 is 1.
