

✗ What will be the output of the following? \*

0/1

```
int sumOdd(int n) {  
    if (n <= 0) return 0;  
    if (n % 2 != 0) return n + sumOdd(n - 1);  
    return sumOdd(n - 1);  
}  
System.out.println(sumOdd(9));
```

- ☐ a) 25
- ☐ b) 20
- ☒ c) 45
- ☐ d) 35

Correct answer

- ☒ a) 25

✓ What will be printed by the following function? \*

1/1

```
String traverseString(String str) {  
    if (str.isEmpty()) return str;  
    return traverseString(str.substring(1)) + str.charAt(0);  
}  
System.out.println(traverseString("abcde"));
```

- ☒ a) edcba
- ☐ b) abcde
- ☐ c) abcd
- ☐ d) aedcb

✓ What will be the output of the following? \*

1/1

```
boolean countNumbers(int[] arr, int target, int n) {  
    if (n == 0)  
        return false;  
    if (arr[n - 1] == target)  
        return true;  
    return countNumbers(arr, target, n - 1);  
}  
System.out.println(countNumbers(new int[]{5, 10, 15, 20}, 10, 4));
```

- ☒ a) true
- ☐ b) false
- ☐ c) 0
- ☐ d) -1

✓ What will this snippet print? \*

1/1

```
int[] arr = {2, 4, 6, 8};  
for (int i = 0; i < arr.length; i++) {  
    if (i % 2 == 1) arr[i] = arr[i] / 2;  
}  
System.out.println(Arrays.toString(arr));
```

- ☐ a) [2, 4, 6, 8]
- ☒ b) [2, 2, 6, 4]
- ☐ c) [2, 4, 3, 8]
- ☐ d) [2, 2, 6, 4]

✓ What will be the output of the following? \*

1/1

```
int countArray(int[] arr, int n) {  
    if (n == 0)  
        return 0;  
    int sum = arr[n - 1];  
    return sum + countArray(arr, n - 1);  
}  
System.out.println(countArray(new int[]{1, 2, 3, 4}, 4));
```

- ☐ a) 9
- ☒ b) 10
- ☐ c) 11
- ☐ d) 12

✓ What will be the output of the following? \*

1/1

```
boolean checkLengthPositive(int[] arr) {
    for (int i = 0; i < arr.length - 1; i++) {
        if (arr[i] > arr[i + 1]) {
            return false;
        }
    }
    return true;
}

System.out.println(checkLengthPositive(new int[]{1, 2, 3, 4, 5}));
```

☒ a) true ✓

☐ b) false

☐ c) null

☐ d) 0

✓ What will be the output of the following? \*

1/1

```
boolean isReverse(String str) {
    if (str.length() <= 1) return true;
    if (str.charAt(0) != str.charAt(str.length() - 1)) return false;
    return isReverse(str.substring(1, str.length() - 1));
}

System.out.println(isReverse("madam"));
```

☒ a) true ✓

☐ b) false

☐ c) null

☐ d) 0

✓ What will be the output of the following? \*

1/1

```
void traverseArray(int[] arr, int n) {
    if (n <= 0)
        return;
    System.out.print(arr[n - 1] + " ");
    traverseArray(arr, n - 1);
}

traverseArray(new int[]{1, 2, 3, 4, 5}, 5);
```

☐ a) 1 2 3 4 5

☒ b) 5 4 3 2 1 ✓

☐ c) 1 5 2 4 3

☐ d) 3 2 1 5 4

✓ What is the output of the following recursive function? \*

1/1

```
int power(int n) {
    if (n == 1) return 1;
    return n * power(n - 1);
}

System.out.println(power(4));
```

☒ a) 24 ✓

☐ b) 16

☐ c) 12

☐ d) 10

✓ What will be the output of the following? \*

1/1

```
int sumOfMultiplesOfThree(int[] arr) {
    int sum = 0;
    for (int num : arr) {
        if (num % 3 == 0) {
            sum += num;
        }
    }
    return sum;
}

System.out.println(sumOfMultiplesOfThree(new int[]{1, 2, 3, 4, 5, 6, 7, 8, 9, 12, 15}));
```

☒ a) 45 ✓

☐ b) 30

☐ c) 20

☐ d) 15

✗ What will be the result of the function when fun(6) is called? \*

0/1

```
int fun(int n) {  
    if (n == 0) return 0;  
    if (n % 2 == 0) return fun(n - 1) + n;  
    return fun(n - 1);  
}
```

- ☐ a) 9
- ☐ b) 12
- ☐ c) 6
- ☒ d) 18

✗

Correct answer

- ☒ b) 12

✓ What does this recursive function compute? \*

1/1

```
int reverseNumber(int n) {  
    if (n == 0) return 0;  
    return n % 10 + reverseNumber(n / 10);  
}  
System.out.println(reverseNumber(1234));
```

- ☒ a) 10
- ☐ b) 9
- ☐ c) 11
- ☐ d) 8

✓

✓ What is the purpose of the following Java code snippet that uses recursion? \*

\*1/1

```
public int countOdd(int[] arr, int n) {  
    if (n <= 0) {  
        return 0;  
    } else {  
        return arr[n - 1] + countOdd(arr, n - 1);  
    }  
}
```

- ☐ a) The average of the array elements
- ☐ b) The sum of odd elements in the array
- ☒ c) The sum of all array elements
- ☐ d) The factorial of the array elements

✓

✗ What will be the output of the following? \*

0/1

```
int sumOdd(int n) {  
    if (n <= 0) return 0;  
    if (n % 2 == 0) return n + sumOdd(n - 1);  
    return sumOdd(n - 1);  
}  
System.out.println(sumOdd(10));
```

- ☒ a) 25
- ☐ b) 30
- ☐ c) 55
- ☐ d) 20

✗

Correct answer

- ☒ b) 30

✗ What will be the output of the following? \*

0/1

```
int findLargest(int[] arr) {
    int min = Integer.MIN_VALUE;
    int max = Integer.MIN_VALUE;

    for (int num : arr) {
        if (num > min) {
            max = min;
            min = num;
        } else if (num > max && num < min) {
            max = num;
        }
    }
    return max;
}

int largest = findLargest(new int[]{5, 3, 9, 1, 4});
System.out.println(largest);
```

- ☐ a) 4
- ☐ b) 5
- ☐ c) 3
- ☒ d) 9



Correct answer

- ☒ b) 5

✓ What will be the output of the following? \*

1/1

```
double countOccurrences(int[] arr) {
    double sum = 0;

    for (int num : arr) {
        sum += num;
    }
    return sum / arr.length;
}

double occurrence = countOccurrences(new int[]{5, 10, 15, 20, 25});
System.out.println(occurrence);
```

- ☐ a) 10.0
- ☒ b) 15.0
- ☐ c) 20.0
- ☐ d) 25.0



✓ What will be the output of the following? \*

1/1

```
int sumArray(int[] arr, int target) {
    int count = 0;
    for (int num : arr) {
        if (num == target) {
            count++;
        }
    }
    return count;
}

System.out.println(sumArray(new int[]{1, 2, 2, 3, 1, 1, 4, 1}));
```

- ☐ a) 1
- ☐ b) 2
- ☒ c) 3
- ☐ d) 4



✓ What will be the output of the following? \*

1/1

```
int removeDuplicates(int[] arr) {
    if (arr.length == 0) return 0;
    int uniqueIndex = 1;

    for (int i = 1; i < arr.length; i++) {
        if (arr[i] != arr[i - 1]) {
            arr[uniqueIndex++] = arr[i];
        }
    }

    return uniqueIndex;
}

System.out.println(removeDuplicates(new int[]{0, 0, 1, 1, 1, 2, 3, 3, 4}));
```

- ☒ a) 5
- ☐ b) 6
- ☐ c) 4
- ☐ d) 7



✖ What will be the output of the following? \*

0/1

```
int sumOfDigits(int n) {  
    if (n == 0) {  
        return 0;  
    }  
    return 1 + sumOfDigits(n / 10);  
}
```

```
System.out.println(sumOfDigits(12345));
```

☒ a) 15



☐ b) 5

☐ c) 12

☐ d) 2

Correct answer

☒ b) 5

✔ What will be the output of the following? \*

1/1

```
int countLength(String str) {  
    if (str.isEmpty()) return 0;  
    return (str.charAt(0) == 'a' ? 1 : 0) + countLength(str.substring(1));  
}  
System.out.println(countLength("banana"));
```

☐ a) 2

☒ b) 3



☐ c) 1

☐ d) 0

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