✕ 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 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 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? * 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

```
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 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 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? *0/1

```
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 ✕

Correct answer

- ◉ a) 45

✕ What will be the output of the following? * 0/1

```
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

Correct answer

- ◉ a) 5

✕ What is the purpose of the following Java code snippet that uses recursion? *0/1

```
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

Correct answer

- ◉ c) The sum of all array elements

✗ What will be the output of the following? * 0/1

```
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

Correct answer

- ◉ a) true

✗ 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 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 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? * 0/1

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

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

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

- (●) a) 10.0 ✕
- ( ) b) 15.0
- ( ) c) 20.0
- ( ) d) 25.0

Correct answer

- (●) b) 15.0

✗ What will be printed by the following function? * 0/1

```
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

Correct answer

- ◉ a) edcba

✗ 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 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? * 0/1

```
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

Correct answer

b) 3

✕ What does this recursive function compute? * 0/1

```
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

Correct answer

- ◉ a) 10

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