

ADS CCEE Practice Quiz

Total points 7/20 ?

Time : 30 min. Questions : 20

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Center *

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Questions

7 of 20 points



✗ 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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