

ADS CCEE Practice Quiz

Total points **17/20** ?

Time : 30 min. Questions : 20

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Center *

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Questions**17 of 20 points**

- ✓ 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? 1/1

```
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

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

1/1

```
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



✓ 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 output of the following? *

1/1

```
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

✓ 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

```
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 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 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 this snippet print?

*

0/1

```
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]

✗

Correct answer

☒ b) [2, 2, 6, 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?

*

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?

*

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 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 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 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 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

```
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

```
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

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