

# Trainee/Junior Software Engineer - 2024

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## Programming/ Coding Output

What does the following code output?

```
<cfset arr = ["ColdFusion", "JavaScript", "Python", "Go"]>
<cfoutput>#arr[2]#</cfoutput>
```

- ColdFusion
- JavaScript
- Python
- Go

What would the above code result in?

```
<cffunction name="foo">
  <cfscript>
    local.a = 10;
    writeOutput(a);
    variables.a = 11;
  </cfscript>
</cffunction>
<cfset a=15>
<cfscript>
  foo();
</cfscript>
<cfoutput>#a#</cfoutput>
```

- 15 10
- 11 10
- 10 11
- No output, ERROR

### What is the purpose of the following code snippet?

```
Unset
<cfcomponent>
  <cffunction name="greet" access="public" returntype="string">
    <cfargument name="name" type="string" required="yes">
      <cfreturn "Hello, " & arguments.name & "!">
    </cffunction>
  </cfcomponent>
```

- To define a function that returns a greeting message
- To create a component that manages user sessions
- To include a greeting message in the application layout
- To create a database connection

What will be the output of the following code snippet?

```
def func1():  
    raise ValueError("An error occurred")  
  
def func2():  
    try:  
        func1()  
    except ValueError as e:  
        print("Caught an exception:", e)  
        raise  
  
try:  
    func2()  
except ValueError as e:  
    print("Handled in main:", e)
```

- Caught an exception: An error occurred
- Handled in main: An error occurred
- Both A and B
- Unhandled ValueError

What will be the output of the following code snippet?

```
Python
matrix = [[1, 2, 3], [4, 5, 6], [7, 8, 9]]
transpose = [[row[i] for row in matrix] for i in range(3)]
print(transpose)
```

- [[1, 2, 3], [4, 5, 6], [7, 8, 9]]
- [[1, 4, 7], [2, 5, 8], [3, 6, 9]]
- [[1, 4, 7], [2, 3, 8], [5, 6, 9]]
- [[1, 3, 7], [2, 5, 8], [4, 6, 9]]

What will be the output of the following python code?

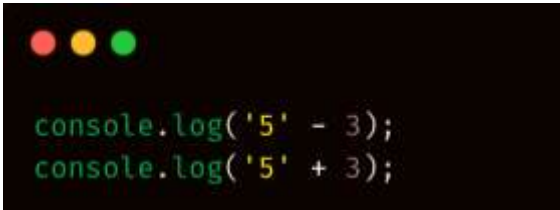
```
def append_to_list(value, my_list=[]):
    my_list.append(value)
    return my_list

list1 = append_to_list(1)
list2 = append_to_list(2)
list3 = append_to_list(3, [])

print(list1)
print(list2)
print(list3)
```

- [1] [2] [3]
- [1, 2] [1, 2] [3]
- [1] [1, 2, 3] [3]
- [1] [1, 2] [1, 2, 3]

What will be the output of the following code snippet?

A terminal window with a black background and three colored window control buttons (red, yellow, green) at the top left. The code is written in a light green monospace font.

```
console.log('5' - 3);  
console.log('5' + 3);
```

- 2 8
- 8 2
- 53 2
- 2 53

What will be the output of the following code snippet?

```
JavaScript  
let str = "hello world";  
console.log(str.split(" ").length);
```

- 1
- 2
- 10
- 11

What will be the output of the following code snippet?

```
JavaScript
let a = {};
let b = {key: 'b'};
let c = {key: 'c'};

a[b] = 123;
a[c] = 456;

console.log(a[b]);
```

- 123
- 456
- Undefined
- Error

What will be the output of the following code snippet?

```
JavaScript
(function() {
  console.log(1);
  setTimeout(function() { console.log(2); }, 1000);
  setTimeout(function() { console.log(3); }, 0);
  console.log(4);
})();
```

- 1 4 3 2
- 1 2 3 4
- 3 1 4 2
- 1 3 4 2

What will be the output of the following JS code snippet?

```
const arrOne = [1, 2, 3, 1, 2, 3, 7, 8, 7];  
  
const arrTwo = arrOne.reduce((one, two) => {  
  if (!one.includes(two)) {  
    one.push(two);  
  }  
  return one;  
}, []);  
  
console.log(arrTwo);
```

- [8, 7, 3, 2, 1]
- [1, 2, 3, 1, 2, 3, 7, 7, 8]
- [1, 2, 3, 7, 8]
- [1, 1, 2, 2, 3, 3, 7, 7, 8]


What will be the output of the following JS code snippet?

```
a = 102;  
console.log(typeof a);
```

- Integer
- int
- signed int
- number



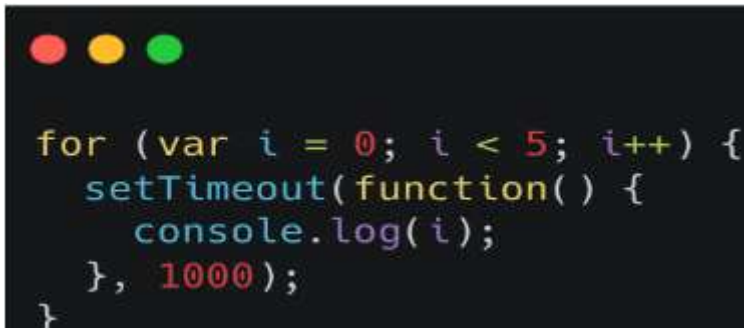
What will be the output of the following JS code snippet?



```
const wellDev = new Symbol();
```

- Just assigned a const variable why should there be any output
- Code won't run due to TypeError
- Symbol can not be assigned to a const variable
- Error because we didn't pass anything in the Symbol()

What will be the output of the following JS code snippet?



```
for (var i = 0; i < 5; i++) {  
  setTimeout(function() {  
    console.log(i);  
  }, 1000);  
}
```

- 5 5 5 5 5
- No valid output because it will go to infinite loop
- 4 3 2 1 0
- 1 2 3 4 5

What will be the output of the following JS code snippet?

```
console.log('Start');

setTimeout(() => {
  console.log('Timeout');
}, 0);

Promise.resolve().then(() => {
  console.log('Promise');
});

console.log('End');
```

- Start Timeout Promise End
- SetTimeout is invalid with 0
- Start Promise End Timeout
- Start End Promise Timeout

What will be the output of the following JS code snippet?

```
console.log(a);
var a = 10;
console.log(a);
```

- ReferenceError
- Undefined 10
- 10 10
- 10 Undefined

What will be the output of the following JS code snippet?

```
var a = 5;
function example() {
  console.log(a);
  var a = 10;
  console.log(a);
}
example();
```

- ReferenceError
- Undefined 10
- 5 10
- 5 Undefined

What will be the output of the following code snippet?

```
class Person:
    Name: string

main:
    personJohn = new Person()
    personJohn.Name = "John"

    personAlice = personJohn
    personAlice.Name = "Alice"

    print(personJohn.Name)
```

- Alice
- John
- Both a & b
- None of the above

What will be the output of the following js code snippet?

```
let stringVariable = "4";
let numberVariable = 4;

console.log(stringVariable == numberVariable);
console.log(stringVariable === numberVariable);
```

- true true
- true false
- false false
- false true

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