

```
Q4:
```

What will be the output?

```
var a = 2;
let b = 3;
function outer() {
    let c = 5;
    var d = 7;
    return function inner() {
        b = 8;
        let c = 9;

        console.log(a);
        console.log(b);
        console.log(c);
        console.log(d);
    }
}
outer()();
```

```
2
8
9
7
```

Based on the code above,

- What's the LE of global EC after creation phase finished before execution phase starts?
 Global EC in creation LE:{outer: null, a: undefined, outer: fn}, TDZ:{b}
- 2. What's the LE of global EC after execution phase finished?

 Global EC in execution LE:{outer: null, a:2, outer: fn, b: 3}
- 3. What's the LE of function outer EC after creation phase finished before execution phase starts? outer EC in creation LE:{outer: global, arguments{length:0}, d: undefined}, TDZ:{c}
- 4. What's the LE of function outer EC after execution phase finished? outer EC in execution LE:{outer: global, arguments{length:0}, d: 7, inner: fn, c: 5}
- 5. What's the LE of function inner EC after creation phase finished before execution phase starts? inner EC in execution LE:{outer: outer , arguments{length:0}}, TDZ{c}
- 6. What's the LE of function inner EC after execution phase finished? inner EC in execution LE:{outer: outer , arguments{length:0} , c: 9} global scope => LE: { outer: null, a: 2, b: 8 }

Q5: When the HTML is

And the CSS is:

```
body {
  background-color: yellow;
  color: blue;
}
p { color: orange; }
.central, .item {
  color: green;
}
#item {
  background-color: white;
}
ul{
  color: purple;
  background-color: beige;
}
```

Specify what colors will show on the screen for the:

	Background-color	color
First	yellow	red
Second	yellow	green
Third	white	purple

Q6: Write a regular expression that matches a string containing a date in the format mm/dd/yyyy. $^{0[1-9]|1[0-2]}$

Q7: Write a JavaScript function that takes an object with a firstName and lastName property, and returns a new object with a fullName property that combines the two names. Use an regular function to define the fullName property and the this keyword to refer to the firstName and lastName properties.

```
function foo(obj) {
    return {
        firstname: obj.firstname,
        lastname: obj.lastname,
        fullname: function () { return this.firstname + " " + this.lastname }
    }
}
let newObj = foo({ firstname: "john", lastname: "smith" })
console.log(newObj.fullname());
```

Q8: Write a JavaScript function that takes an object with a firstName and lastName property, and a callback function that logs a message using the this keyword. Bind the callback function to the object using the bind method, and call the bound function with no arguments.

```
function foo(obj, callback) {
    callback.bind(obj)();
}
function callback() {
    console.log("Hello " + this.firstname);
}
foo({ firstname: "john", lastname: "smith" }, callback);
```