

# JS Closures / Scoping exercises

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1. What's the result of executing this code and why.

```
function test() {  
  console.log(a);  
  console.log(foo());  
  
  var a = 1;  
  function foo() {  
    return 2;  
  }  
}  
  
test();
```

2. What is result?


```
var a = 1;  
  
function someFunction(number) {  
  function otherFunction(input) {  
    return a;  
  }  
  
  a = 5;  
  
  return otherFunction;  
}  
  
var firstResult = someFunction(9);  
var result = firstResult(2);
```

3. What is the result of the following code? Explain your answer.

```
var fullname = 'John Doe';  
var obj = {  
  fullname: 'Colin Ihrig',  
  prop: {  
    fullname: 'Aurelio De Rosa',  
    getFullname: function() {  
      return this.fullname;  
    }  
  }  
};
```

```
console.log(obj.prop.getFullname());  
  
var test = obj.prop.getFullname;  
  
console.log(test());
```

4. What will you see in the console for the following example?

```
 var a = 1;  
function b() {  
  a = 10;  
  return;  
  function a() {}  
}  
b();  
console.log(a);
```