

1. Based on the following code, what will print out when the variable `i` has the value 3 ?

1 / 1 punto

```
1
2   if(i < 5) {
3       console.log("Hello");
4   } else {
5       console.log("Goodbye");
6   }
7
```

☒ Hello

☐ Goodbye

✓ **Correcto**

That's correct! The code inside the if statement will execute because the condition `i < 5` is true.

2. Based on the following code, what will print out when the variable `i` has the value 1 ?

1 / 1 punto

```
1
2   if(i == 0 && i == 1) {
3       console.log("Hello");
4   } else {
5       console.log("Goodbye");
6   }
7
```

☐ Hello

☒ Goodbye

✓ **Correcto**

That's correct! The condition checks if `i` is equal to 0 AND 1. Since it is not possible for `i` to be both values at the same time, the result of this check is false. Therefore, the code inside the else statement will run.

3. How many times will the following code print the word 'Hello'?

1 / 1 punto

```
1
2   for (i = 0; i < 2; i++) {
```

```
3     console.log("Hello");  
4 }  
5
```

- ☐ 1
- ☒ 2
- ☐ 3
- ☐ 4

**Correcto**

That's correct! The loop will run twice based on the condition $i < 2$.

4. How many times will the following code print the word 'Hello'?

1 / 1 punto

```
1  
2     var i = 0;  
3     while(i < 3) {  
4         console.log("Hello");  
5         i++;  
6     }  
7
```

- ☐ 1
- ☐ 2
- ☒ 3
- ☐ 4

**Correcto**

That's correct! The loop will run 3 times based on the condition $i < 3$.

5. How many times will the following code print the word 'Hello'?

1 / 1 punto

```
2     for (i = 0; i < 2; i++) {  
3         for (var j = 0; j < 3; j++) {  
4             console.log("Hello");  
5         }  
6     }  
7
```

- ☐ 2
- ☐ 3
- ☐ 4
- ☒ 6

**Correcto**

That's correct! The inner loop will be run twice by the outer loop. Since the inner loop runs 3 times, the `console.log` will be called 6 times in total.

6. Based on the following code, what will print out when the variable `i` has the value 7?

1 / 1 punto

```
1
2   if(i <= 5) {
3       console.log("Hello");
4   } else if(i <= 10) {
5       console.log("Goodnight");
6   } else {
7       console.log("Goodbye");
8   }
9
```

- ☐ Hello
- ☒ Goodnight
- ☐ Goodbye

**Correcto**

That's correct! The code inside the `else if` statement will execute. The first condition fails because the value of `i` is greater than 5. The second condition succeeds because the value of `i` is less than 10.

7. Based on the following code, what will print out when the variable `i` has the value 3?

1 / 1 punto

```
1
2   switch(i) {
3       case 1:
4           console.log("Hello");
5           break;
6       case 2:
7           console.log("Goodnight");
8           break;
```

```
9      case 3:
10         console.log("Goodbye");
11         break;
12     }
13
```

- ☐ Hello
- ☐ Goodnight
- ☒ Goodbye

**Correcto**

That's correct! The code for case 3 will run.

8. Based on the following code, what will print out when the variable `i` has the value 3?

1 / 1 punto

```
1
2     if(i == 2 || i == 3) {
3         console.log("Hello");
4     } else {
5         console.log("Goodbye");
6     }
7
```

- ☒ Hello
- ☐ Goodbye

**Correcto**

That's correct! The condition checks if `i` is equal to 2 OR 3. Since the value of `i` is 3, the code inside the if statement will run.