# JavaScript Homework #1

Event Loop

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

function printing() {

console.log(1);

setTimeout(function() { console.log(2); }, 1000);

setTimeout(function() { console.log(3); }, 0);

console.log(4);

}

printing();

2. Guess the output sequence and why?

for (var i = 0; i < 4; i++) {

setTimeout(() => console.log(i), 0)

}

3. Guess the output sequence and why?

for (let i = 0; i < 4; i++) {

(function (i) {

setTimeout(() => console.log(i), 0)

})(i)

}

4. Guess the output sequence and why?

console.log("Before the timeout");

setTimeout(function() { console.log("In the timeout function"); }, 0);

console.log("After the timeout");

5. Used by Google and Amazon: what will the following code output?

const arr = [10, 12, 15, 21];

for (var i = 0; i < arr.length; i++) {

setTimeout(function() {

console.log('Index: ' + i + ', element: ' + arr[i]);

}, 3000);

}

6. Write a stop timer that starts with a given number of seconds,

and stops after the number reaches zero

(for each second, you can console.log the current number).