

1) Which loop always executes the loop body at least once?

- A. while
- B. do-while
- C. for

2) What numbers are output by the code segment?

```
for (c = 5; c < 10; c += 2) {  
    console.log(c);  
}
```

- A. 5, 7, 9
- B. 5, 6, 7, 8, 9
- C. Infinite loop

3) What condition causes the for loop to output the numbers 100 down to 50, inclusively?

```
for (c = 100; _____; c--) {  
    console.log(c);  
}
```

- A.  $c < 50$
- B.  $c > 50$
- C.  $c \geq 50$

4) What numbers are output by the code segment?

```
for (x = 1; x <= 3; x++) {  
    for (y = 2; y <= 4; y++) {  
        console.log(y);  
    }  
}
```

- A. 2, 3, 4
- B. 2, 3, 4, 2, 3, 4, 2, 3, 4
- C. 2, 3, 4, 5, 6, 7, 8, 9, 10

Answers :

1. B

The loop body is executed once before the loop condition is first evaluated.

2. A

$c$  is incremented by 2 each time, and the loop terminates when  $c$  is 11.

3. C

The loop terminates when  $c$  is 49.

4. B

The inner for loop outputs 2, 3, 4 three times.