

Basic Level:

1. What is the starting point of a basic for loop in JavaScript? Ans: A B C D

- A) for (let i = 1; i < 10; i++)
- B) for (let i = 0; i < 10; i++)
- C) for (let i = 0; i <= 10; i++)
- D) for (let i = 1; i <= 10; i++)

2. What part of the for loop controls how many times the loop executes? Ans: D

- A) Initialization
- B) Condition
- C) Increment/Decrement
- D) All of the above

3. What will be the output of the loop? Ans: A

```
for (let i = 0; i < 5; i++) {  
  console.log(i);  
}
```

- A) 0, 1, 2, 3, 4
- B) 1, 2, 3, 4, 5
- C) 1, 2, 3, 4
- D) 0, 1, 2, 3, 4, 5

4. Can a for loop be used without a condition? Ans: A

- A) Yes
- B) No

5. What is the significance of the increment part of the for loop? Ans: C

- A) It checks the condition.
- B) It initializes the loop.
- C) It changes the loop variable each iteration.
- D) It ends the loop.

6. What will be the output of the following code? Ans : A

```
for (let i = 5; i > 0; i--) {  
  console.log(i);  
}
```

- A) 5, 4, 3, 2, 1
- B) 1, 2, 3, 4, 5
- C) 4, 3, 2, 1
- D) 5, 4, 3, 2, 1, 0

7. Can the loop variable be modified inside the for loop body? Ans: A

- A) Yes
- B) No

8. What happens if the condition in the for loop is always true? Ans: A

- A) Loop runs indefinitely.
- B) Loop will never run.
- C) Loop runs once.
- D) Loop exits immediately.

9. What does the loop do? Ans: A

```
for (let i = 3; i < 10; i += 2) {  
  console.log(i);  
}
```

- A) 3, 5, 7, 9
- B) 4, 6, 8, 10
- C) 5, 7, 9
- D) 3, 4, 5, 6

10. What will happen in this code? Ans: B

```
for (let i = 0; i < 3; i++) {  
  let i = 5;  
  console.log(i);  
}
```

- A) 0, 1, 2
- B) 5, 5, 5
- C) Error
- D) Infinite loop

Intermediate Level:

11. What is the scope of the variable i in a for loop? Ans: B

- A) Global
- B) Local to the block
- C) Local to the function
- D) None

12. Which of the following is a valid for loop? Ans: B

- A) for (let i = 0;; i++)
- B) for (let i = 0, i < 5, i++)

- C) for (i = 0; i < 5; i++)

- D) for (i == 0; i < 5; i++)

13. How can you skip the current iteration in a for loop? Ans: A

- A) continue;

- B) break;

- C) return;

- D) exit;

14. How can you stop the execution of a for loop before it completes all iterations?

Ans: C

- A) continue;

- B) stop;

- C) break;

- D) exit;

15. What happens if the increment is missing in the for loop? Ans: A

- A) Infinite loop

- B) Syntax error

- C) Loop runs once

- D) No iteration occurs

16. What will be the output? Ans: B

```
for (let i = 0; i < 5; i += 2) {  
  console.log(i);  
}
```

- A) 0, 1, 2, 3, 4

B) 0, 2, 4

-

C) 0, 2

-

D) 2, 4

17. What will happen?

Ans: A

```
for (let i = 0; i < 3; i++)  
  for (let j = 0; j < 2; j++)  
    console.log(i + j);
```

-

A) 0, 1, 1, 2, 2, 3

-

B) 0, 1, 1, 2, 2, 3, 3

-

C) 0, 1, 1, 2, 2, 3, 3, 4

-

D) 0, 1, 2, 3, 4

18. What will the following loop output?

Ans: A

```
for (let i = 0; i <= 10; i++) {  
  if (i === 5) break;  
  console.log(i);  
}
```

-

A) 0, 1, 2, 3, 4

-

B) 0, 1, 2, 3, 4, 5

-

C) 0, 1, 2, 3, 4, 5, 6

-

D) 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10

19. What will the following code do?

Ans: A

```
for (let i = 1; i <= 10; i *= 2) {  
  console.log(i);  
}
```

-

A) 1, 2, 4, 8

-

B) 1, 3, 5, 7, 9

-

C) 2, 4, 8

-

D) 1, 2, 3, 4

20. What will this for loop do?

Ans: A

```
for (let i = 10; i >= 0; i -= 3) {  
  console.log(i);  
}
```

-

A) 10, 7, 4, 1

-

B) 10, 8, 6, 4

-

C) 10, 9, 8, 7

-

D) Error

Advanced Level:

21. How many times will the following loop run?

Ans: D

```
for (let i = 0; i !== 10; i += 3) {  
  console.log(i);  
}
```

-

A) 4

-

B) 5

-

C) 6

-

D) Infinite

22. What will this loop print?

Ans: C

```
for (let i = 0; i < 3; i++) {  
  if (i % 2 === 0) continue;  
  console.log(i);  
}
```

-

A) 1, 2

-

B) 0, 2

-

C) 1

-

D) 0, 1, 2

23. Can the for loop header be empty? Ans: A

```
for (;;) {  
  // some code  
}
```

-

A) Yes

-

B) No

24. How can the following code be corrected? Ans: E

```
for (let i = 0; i < 5 i++) {  
  console.log(i);  
}
```

-

A) Add a semicolon after i++.

-

B) Remove let.

-

C) Add a comma between statements.

-

D) Add parentheses around i++.

E) Add a semi colon before i++.

25. What is the output? Ans: A

```
for (let i = 0; i <= 3; i++, console.log(i));
```

-

A) 1, 2, 3, 4

-

B) 0, 1, 2, 3, 4

-

C) 0, 1, 2, 3

-

D) 1, 2

26. What will be the final value of i in this code?

Ans: B

```
let i;  
for (i = 0; i < 5; i++) {}  
console.log(i);
```

-

A) 4

-

B) 5

-

C) 6

-

D) Undefined

27. What will happen in this loop?

Ans: A

```
for (let i = 0; i < 10; i = i + 3) {  
  console.log(i);  
}
```

-

A) 0, 3, 6, 9

-

B) 1, 4, 7, 10

-

C) Infinite loop

-

D) Syntax error

28. How many times will this loop run?

Ans: A

```
for (let i = 5; i <= 10; i += 2) {}
```

-

A) 3

-

B) 4

-

C) 5

-

D) Infinite

29. What will the following code print?

Ans: C

```
for (let i = 0; i < 10; i++) {  
  if (i % 3 === 0) {  
    console.log(i);  
  }  
}
```



```
}  
}
```

-

A) 1, 2, 3, 6, 9

-

B) 3, 6, 9

-

C) 0, 3, 6, 9

-

D) 0, 2, 4, 6

30. What happens when the loop has no initialization? Ans: D

```
for (; i < 5; i++) {  
  console.log(i);  
}
```

-

A) Error

-

B) Infinite loop

-

C) 0, 1, 2, 3, 4

-

D) Depends on the scope of i

31. What will the following code do? Ans: A

```
for (let i = 1; i < 20; i *= 3) {  
  console.log(i);  
}
```

-

A) 1, 3, 9

-

B) 1, 2, 4, 8

-

C) 1, 3, 6, 9

-

D) Infinite loop

32. How does the for loop differ from the while loop in terms of syntax? Ans:A

-

A) Initialization happens outside the loop in while.

-

B) while loop is more optimized.

-

C) for loop doesn't require a condition.

-

D) while loop can't be nested.

33. What will happen if there is no update statement in the for loop? Ans: B

-

A) Loop will run once.

-

B) Infinite loop.

-

C) Loop won't run at all.

-

D) Syntax error.

34. How many times does this loop run? Ans: D

```
for (let i = 0; i++ < 5;) {}
```

-

A) 4

-

B) 5

-

C) 6

-

D) Infinite

35. What is the result of this code? Ans: B

```
for (let i = 5; i; i--) {  
  console.log(i);  
}
```

-

A) 4, 3, 2, 1

-

B) 5, 4, 3, 2, 1

-

C) 4, 3, 2, 1, 0

-

D) Infinite loop

36. What will the following loop print? Ans: A

```

for (let i = 1; i <= 3; i++) {
  for (let j = 1; j <= 2; j++) {
    console.log(i, j);
  }
}

```

-
- A) 1, 1; 1, 2; 2, 1; 2, 2; 3, 1; 3, 2
-
- B) 1, 2; 2, 2; 3, 2
-
- C) 1, 2; 2, 1; 3, 2
-
- D) Syntax error

37. How many times will the inner loop run in this code?

Ans:

```

for (let i = 0; i < 4; i++) {
  for (let j = 0; j < 3; j++) {
    console.log(i, j);
  }
}

```

-
- A) 4
-
- B) 7
-
- C) 12
-
- D) 10

38. How many total iterations will both loops run?

Ans: C

```

for (let i = 1; i <= 5; i++) {
  for (let j = 1; j <= i; j++) {
    console.log(i, j);
  }
}

```

-
- A) 15
-
- B) 10
-
- C) 12
-

D) 20

39. What is printed by the following loop?

Ans: A

```
for (let i = 2; i <= 4; i++) {  
  for (let j = 1; j < i; j++) {  
    console.log(i, j);  
  }  
}
```

-

A) 2, 1; 3, 1; 3, 2; 4, 1; 4, 2; 4, 3

-

B) 2, 1; 3, 2; 4, 3

-

C) 2, 2; 3, 3; 4, 4

-

D) 1, 2; 2, 3

40. How many iterations will this loop combination execute?

Ans: B

```
for (let i = 0; i < 3; i++) {  
  for (let j = i; j < 3; j++) {  
    console.log(i, j);  
  }  
}
```

-

A) 9

-

B) 6

-

C) 5

-

D) 3

41. What is the final output of this nested loop?

Ans:

```
let result = '';  
for (let i = 0; i < 3; i++) {  
  for (let j = 0; j < 3; j++) {  
    result += i + ' ' + j + ' ';  
  }  
}  
console.log(result);
```

-

A) "000 011 022"

-

B) "00 01 02 10 11 12 20 21 22"

-

C) "012 012 012"

-

D) Infinite loop

42. What does this code output?

Ans: A

```
for (let i = 1; i <= 2; i++) {  
  for (let j = 1; j <= 3; j++) {  
    if (i + j === 4) {  
      console.log(i, j);  
    }  
  }  
}
```

-

A) 1, 3; 2, 2

-

B) 1, 1; 2, 3

-

C) 2, 1; 1, 2

-

D) 1, 2; 2, 1

43. What will happen when the following nested loop is executed? Ans: A

```
for (let i = 0; i < 3; i++) {  
  for (let j = 0; j < 2; j++) {  
    if (j === 1) break;  
    console.log(i, j);  
  }  
}
```

-

A) 0, 0; 1, 0; 2, 0

-

B) 0, 1; 1, 1; 2, 1

-

C) 0, 1; 1, 0

-

D) Infinite loop

44. What does this loop combination output?

Ans: B

```
for (let i = 1; i <= 3; i++) {  
  for (let j = 1; j <= 2; j++) {  
    if (i === 2) continue;  
  }  
}
```

```

    console.log(i, j);
  }
}

```

-

A) 1, 1; 1, 2; 2, 1; 2, 2; 3, 1; 3, 2

-

B) 1, 1; 1, 2; 3, 1; 3, 2

-

C) 1, 2; 2, 1; 3, 2

-

D) Infinite loop

45. What will the output be for this nested loop setup? Ans: A

```

let output = '';
for (let i = 1; i <= 3; i++) {
  for (let j = i; j <= 3; j++) {
    output += i + ' ' + j + ' ';
  }
}
console.log(output);

```

-

A) 11 12 13 22 23 33

-

B) "12 23 34"

-

C) "12 13 23"

-

D) Infinite loop

46. How many times will the inner loop execute in total? Ans: A

```

for (let i = 0; i < 4; i++) {
  for (let j = i; j >= 0; j--) {
    console.log(i, j);
  }
}

```

-

A) 10

-

B) 5

-

C) 4

-

D) 8

47. What does this code print?

Ans: C

```
let counter = 0;
for (let i = 0; i < 4; i++) {
  for (let j = 0; j < 2; j++) {
    counter++;
  }
}
console.log(counter);
```

-

A) 2

-

B) 4

-

C) 8

-

D) 6

48. What is printed by this code?

Ans: C

```
for (let i = 1; i <= 2; i++) {
  for (let j = 1; j <= 2; j++) {
    if (i === j) break;
    console.log(i, j);
  }
}
```

-

A) 1, 2; 2, 1

-

B) 1, 1; 2, 2

-

C) 2, 1

-

D) Infinite loop

49. What happens in the following nested loop?

Ans: E

```
for (let i = 3; i > 0; i--) {
  for (let j = 3; j > i; j--) {
    console.log(i, j);
  }
}
```

-

A) 3, 2; 2, 1; 1, 0

-

B) 2, 3; 1, 2; 1, 3

-

C) 1, 2; 1, 3

-

D) 3, 2; 3, 1

E) 2 3 1 3 1 2

50. How many total times does the loop run in this code? Ans: B

```
for (let i = 0; i < 3; i++) {  
  for (let j = 0; j < 3; j++) {  
    if (i === 2) break;  
    console.log(i, j);  
  }  
}
```

-

A) 9

-

B) 6

-

C) 4

-

D) 5
