1. Guess the output:

```javascript
var numbers = [1, 2, 3];
numbers.push(4);
console.log(numbers);
```

      a)   [1, 2, 3, 4]
      b)   [4, 1, 2, 3]
      c)   [1, 2, 3]
      d)   Error

2. Guess the output:

```javascript
var fruits = ["apple", "banana", "cherry"];
var removed = fruits.pop();
console.log(fruits, removed);
```

      a)   ["apple", "banana"], "cherry"
      b)   ["apple", "banana", "cherry"], undefined
      c)   ["cherry"], "banana"
      d)   Error

3. Guess the output:

```javascript
var numbers = [5, 10, 15];
var removed = numbers.shift();
console.log(numbers, removed);
```

      a)   [10, 15], 5
      b)   [5, 10], 15
      c)   [5, 10, 15], undefined
      d)   Error

4. Guess the output:

```javascript
var animals = ["cat", "dog"];
var length = animals.unshift("lion");
console.log(animals, length);
```

      a)   ["lion", "cat", "dog"], 3
      b)   ["cat", "dog", "lion"], 2
      c)   ["cat", "dog"], 2
      d)   Error

5. Guess the output:

```
var data = [100, 200, 300, 400];
data.length = 2;
console.log(data);
```

    a)   [100, 200]

    b)   [100, 200, 300, 400]

    c)   [100, 200, undefined]

    d)   Error

6.   Guess the output:

```
var value = [1, 2, 3];
var isArray = Array.isArray(value);
console.log(isArray);
```

    a)   true

    b)   false

    c)   undefined

    d)   Error

7.   Guess the output:

```
var arr1 = [1, 2];
var arr2 = [3, 4];
var result = arr1.concat(arr2);
console.log(result);
```

    a)   [1, 2, 3, 4]

    b)   [1, 2], [3, 4]

    c)   [3, 4, 1, 2]

    d)   Error

8.   Guess the output:

```
var letters = ["a", "b", "c"];
var count = letters.push("d", "e");
console.log(letters, count);
```

    a)   ["a", "b", "c", "d", "e"], 5

    b)   ["a", "b", "c"], 3

    c)   ["a", "b", "c", "d"], 4

    d)   Error

9.   Guess the output:

```
var nums = [1, 2, 3, 4];
nums.pop();
```

```
nums.shift();
console.log(nums);
```

    a)   [1, 2, 3]

    b)   [2, 3]

    c)   [3, 4]

    d)   Error

10. Guess the output:

```
var arr = [1, 2, 3];
var length = arr.unshift(0);
arr.pop();
console.log(arr, length);
```

    a)   [0, 1, 2], 4

    b)   [0, 2], 3

    c)   [0, 1], 2

    d)   Error

11. Guess the output:

```
var items = ["pen", "pencil", "eraser"];
var length = items.push("sharpener");
console.log(items, length);
```

    a)   ["pen", "pencil", "eraser", "sharpener"], 4

    b)   ["pen", "pencil", "eraser"], 3

    c)   ["sharpener", "pen", "pencil", "eraser"], 4

    d)   Error

12. Guess the output:

```
var nums = [10, 20, 30];
nums.length = 5;
console.log(nums);
```

    a)   [10, 20, 30, undefined, undefined]

    b)   [10, 20, 30]

    c)   [10, 20, 30, 0, 0]

    d)   Error

        Answer: [10, 20, 30, empty × 2]

13. Guess the output:

```javascript
var fruits = ["mango", "apple"];
fruits.shift();
fruits.push("orange");
console.log(fruits);
```

    a)   `["apple", "orange"]`

    b)   ["mango", "apple", "orange"]

    c)   ["orange"]

    d)   Error

14. Guess the output:

```javascript
var arr = [1, 2, 3];
arr.pop();
arr.unshift(0);
console.log(arr);
```

    a)   `[0, 1, 2]`

    b)   [0, 2]

    c)   [1, 2, 3]

    d)   Error

15. Guess the output:

```javascript
var letters = ["x", "y"];
letters.unshift("w");
letters.push("z");
console.log(letters);
```

    a)   `["w", "x", "y", "z"]`

    b)   ["x", "y", "z", "w"]

    c)   ["w", "z"]

    d)   Error

16. Guess the output:

```javascript
var values = [];
values.push(1);
values.pop();
console.log(values);
```

    a)   `[]`

        b)   [1]

        c)   [undefined]

        d)   Error

17. Guess the output:

```
var nums = [100];
nums.unshift(50);
nums.pop();
console.log(nums);
```

        a)   [50]

        b)   [100, 50]

        c)   []

        d)   Error

18. Guess the output:

```
var arr1 = ["a"];
var arr2 = ["b", "c"];
var combined = arr1.concat(arr2);
console.log(combined);
```

        a)   ["a", "b", "c"]

        b)   [["a"], ["b", "c"]]

        c)   [["a"], "b", "c"]

        d)   Error

19. Guess the output:

```
var nums = [5, 10];
nums.push(15);
nums.shift();
console.log(nums);
```

        a)   [10, 15]

        b)   [5, 10]

        c)   [5]

        d)   Error

20. Guess the output:

```
var data = ["x", "y"];
data.unshift("z");
```

```
data.pop();
console.log(data);
```

     a)   ["z", "x"]

     b)   ["z", "y"]

     c)   ["x"]

     d)   Error

21. Guess the output:

```
var arr = [];
arr.push(1, 2);
arr.pop();
console.log(arr);
```

     a)   [1]

     b)   [1, 2]

     c)   []

     d)   Error

22. Guess the output:

```
var arr = ["a", "b", "c"];
arr.pop();
arr.push("d");
console.log(arr);
```

     a)   ["a", "b", "d"]

     b)   ["d", "b", "c"]

     c)   ["a", "b", "c", "d"]

     d)   Error

23. Guess the output:

```
var arr = ["x"];
arr.unshift("y");
arr.push("z");
arr.shift();
console.log(arr);
```

     a)   ["x", "z"]

     b)   ["y", "z"]

     c)   ["z"]

     d)   Error

24. Guess the output:

```javascript
var arr = ["1"];
arr.unshift("2", "3");
console.log(arr);
```

    a)   ["2", "3", "1"]

    b)   ["1", "2", "3"]

    c)   [1, 2, 3]

    d)   Error

25. Guess the output:

```javascript
var arr = [10];
arr.push(20, 30);
arr.shift();
console.log(arr);
```

    a)   [20, 30]

    b)   [10, 20]

    c)   [10, 20, 30]

    d)   Error

26. Guess the output:

```javascript
var arr = [];
arr.unshift("a");
arr.push("b");
arr.unshift("c");
console.log(arr);
```

    a)   ["c", "a", "b"]

    b)   ["a", "b", "c"]

    c)   ["a", "b"]

    d)   Error

27. Guess the output:

```javascript
var arr = ["1"];
arr.pop();
arr.unshift("2");
console.log(arr);
```

    a)   ["2"]

b) ["1"]
c) ["2", "1"]
d) Error

28. Guess the output:

```
var nums = [5];
nums.push(10, 15);
nums.length = 2;
console.log(nums);
```

a) [5, 10]
b) [5, 10, 15]
c) [5]
d) Error

29. Guess the output:

```
var arr = ["a", "b", "c"];
arr.pop();
arr.length = 5;
console.log(arr);
```

a) ["a", "b", undefined, undefined, undefined]
b) ["a", "b", "c", undefined, undefined]
c) ["a", "b"]
d) Error
Answer ['a', 'b', empty × 3]

30. Guess the output:

```
var arr = ["p"];
arr.push("q");
arr.unshift("r");
arr.shift();
arr.pop();
console.log(arr);
```

a) ["q"]
b) ["p"]
c) []
d) Error