1. Guess the output:

```
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:

```
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:

```
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:

```javascript
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

13. Guess the output:

```
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:

```
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:

```
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:

```
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:

```
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:

```
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:

```
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:

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

-

a) ["2"]

-

b) ["1"]

-

c) ["2", "1"]

-

d)   Error

28. Guess the output:

```javascript
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:

```javascript
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

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