1.)
```
const arr = [1, 2, 3, 4, 5];
const result = arr.map(value => value * 2).filter(value => value > 4);
console.log(result);
```

2.)
```
const arr = [1,2,3,4,5];
const arr2 = arr.splice(0,4,1);
const arr3 = arr2.map((v,i) => v*i);
const result = arr3.reduce((acc, v) => acc + v, 0);
console.log(result);
```

3.)
```
const arr = [10,20,30,40,50,60];
for(let i = arr.length - 1; i >= 0; i--) arr[i] = i;
console.log(arr);
```

4.)
```
const arr = [1, 2, 3, 4, 5, 6, 7, 8];
for (let i = 0; i < arr.length; i++) if (arr[i] % 2 === 0) arr[i] *= 2;
console.log(arr);
```

5.)
```
const arr = [10,20,30,40,50,60,70,80];
let result = arr.reduce((acc) => acc + 1, 0);
console.log(result);
```

6.)
```
const numbers = [5, 10, 15, 20, 25];
const result = numbers.map(num => num - 5).filter(num => num > 5);
console.log(result);
```

7.)
```
const arr = [7, 14, 21, 28, 35];
for (let i = arr.length - 1; i >= 0; i--) arr[i] = i * 3;
console.log(arr);
```

8.)
```
const arr = [3, 6, 9, 12, 15];
const arr2 = arr.splice(1, 3, 4);
const result = arr2.reduce((acc, num) => acc + num, 0);
console.log(result);
```

9.)
```
const arr = [1, 2, 3, 4, 5];
let result = arr.reduce((acc, num) => acc + num ** 2, 0);
```

```
console.log(result);
```

10.)
```
const arr = [10, 20, 30, 40, 50];
const newArr = arr.map((v, i) => i * 5);
console.log(newArr);
```

11.)
```
const arr = [100, 200, 300, 400, 500];
arr.splice(1, 3);
console.log(arr.length);
```

12.)
```
const arr = [1, 2, 3, 4, 5];
const result = arr.reduce((acc, num) => acc * num, 1);
console.log(result);
```

13.)
```
const arr = [12, 45, 67, 23, 89, 34];
const result = arr.reduce((acc, num) => (num > acc ? num : acc), arr[0]);
console.log(result);
```

14.)
```
const arr1 = [2, 4, 6, 8];
const arr2 = [1, 3, 5, 7];
const arr3 = [...arr1, ...arr2];
const result = arr3.filter(num => num % 2 !== 0).map(num => num ** 2).reduce((acc, num) => acc + num, 0);
console.log(result);
```

15.)
```
const arr = [[1, 2, 3], [4, 5, 6], [7, 8, 9]];
const arr2 = arr.flat();
arr2.splice(2, 3, ...[10, 11, 12]);
const result = arr2.reduce((acc, num, index) => index % 2 === 0 ? acc + num : acc - num, 0);
console.log(result);
```