1. Given a sorted array of positive and negative numbers. You have to Square it and sort it.

```
function sortedSquares(array) {
    let squares = array.map(num => num * num);
    return squares.sort((a, b) => a - b);
}
let input = [-12, -8, -7, -5, 2, 4, 5, 11, 15];
console.log(sortedSquares(input));
```

2. Design an immutable class with following attributes.

```
function createImmutableEmployee(name, id, dateOfJoining, addresses) {

    return {

        getName: () => name,

        getId: () => id,

        getDateOfJoining: () => new Date(dateOfJoining), // Return a new
copy to prevent modification

        getAddresses: () => addresses.map(addr => ({ ...addr })) // Return
new copies to prevent modification

    };

}
```

3. Given an array of Red Green Blue balls.You have to sort it.

```
function sortRGB(arr) {

    let countB = 0, countG = 0, countR = 0;

    for (let color of arr) {

            if (color === 'B') countB++;

            else if (color === 'G') countG++;

            else countR++;

        }

        return Array(countB).fill('B')

            .concat(Array(countG).fill('G'))

            .concat(Array(countR).fill('R'));

    }
```

4.We are given two arrays that represent the arrival and departure times of trains, the task is to find the minimum number of platforms required so that no train waits.

```
function findMinPlatforms(arr, dep) {
    arr.sort((a, b) => a - b);
    dep.sort((a, b) => a - b);
    let platforms = 0, maxPlatforms = 0;
    let i = 0, j = 0;
    while (i < arr.length) {
        if (arr[i] < dep[j]) {
            platforms++;
            maxPlatforms = Math.max(maxPlatforms, platforms);
            i++;
        } else {
            platforms--;
            j++;
        }
    }
    return maxPlatforms;
}
```