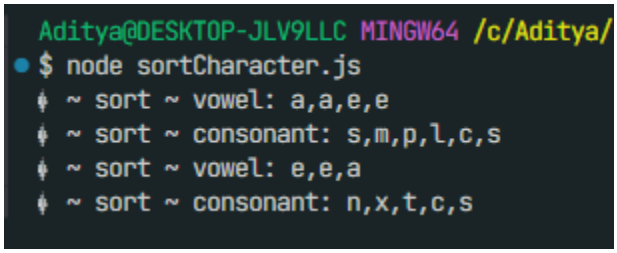
1. Problem : Sort Character

```
"use strict";

const inputan1 = "Sample Case";
const inputan2 = "Next Case";

const sort = (inputan) => {
    const vow = ["a", "i", "u", "e", "o"];
    let vowel = [];
    let consonant = [];

    for (let huruf of inputan) {
        for (let vocal of vow) {
            if (huruf.toLowerCase() == vocal.toLowerCase()) {
                if (vowel.length == 0) {
                    vowel.push(huruf.toLowerCase());
                    huruf = " ";
                } else {
                    let i = 0;
                    for (; i < vowel.length; i++) {
                        if (vowel[i] == huruf) {
                            vowel[i + 1] = huruf.toLowerCase();
                            break;
                        }
                    }
                    vowel[i + 1] = huruf.toLowerCase();
                    huruf = " ";
                }
            }
        }
        if (huruf != " ") {
            consonant.push(huruf.toLowerCase());
        }
    }

    console.log("🚀 ~ sort ~ vowel:", vowel.toString());
    console.log("🚀 ~ sort ~ consonant:", consonant.toString());
};

sort(inputan1);
sort(inputan2);

```


Aditya@DESKTOP-JLV9LLC MINGW64 /c/Aditya/
$ node sortCharacter.js
~ sort ~ vowel: a,a,e,e
~ sort ~ consonant: s,m,p,l,c,s
~ sort ~ vowel: e,e,a
~ sort ~ consonant: n,x,t,c,s

2. PSBB (Pembatasan Sosial Berskala Besar)

```
"use strict";

const readline = require("readline");

const rl = readline.createInterface({
    input: process.stdin,
    output: process.stdout,
});

const askQuestion = (question) => {
    return new Promise((resolve) => rl.question(question, resolve));
};

const getFamiliesData = async () => {
    let families = {};

    const familyCount = await askQuestion("Input the number of families: ");
    families.n = parseInt(familyCount);

    const membersInput = await askQuestion(
        "Input the number of members in the family (separated by a space): "
    );
    families.members = membersInput.split(" ").map(Number);

    rl.close();

    return families;
};

const busRequired = async () => {
    try {
        let families = await getFamiliesData();
        if (families.n !== families.members.length) {
            console.log("Input must be equal with count of family");
            return;
        }
        let car = 0;

        let arr = [];
        let tempMembers = [...families.members];

        // sorting data array
        for (let i in tempMembers) {
            let max = 0;
            let maxIndex = -1;

            for (let j = 0; j < tempMembers.length; j++) {
                if (tempMembers[j] > max) {
                    max = tempMembers[j];
                    maxIndex = j;
                }
            }

            if (maxIndex !== -1) {
                arr.push(max);
                tempMembers[maxIndex] = 0;
            }
        }
        // console.log(arr);

        // fulfill bus
        let i = 0;
        while (i < arr.length) {
            if (arr[i] === 4) {
                car++;
                i++;
            } else {
                let found = false;
                for (let j = i + 1; j < arr.length; j++) {
                    if (arr[i] + arr[j] <= 4) {
                        car++;
                        arr.splice(j, 1);
                        found = true;
                        break;
                    }
                }
                if (!found) {
                    car++;
                }
                i++;
            }
        }
        console.log(`Minimum bus required is : ${car}`);
    } catch (error) {
        console.error("Error:", error);
    }
};

busRequired();
```

```
Aditya@DESKTOP-JLV9LLC MINGW64 /c/Aditya/BootCamp/Project/Logic/test nawadata
$ node psbb.js
Input the number of families: 5
Input the number of members in the family (separated by a space): 1 2 4 3 3
Minimum bus required is : 4

Aditya@DESKTOP-JLV9LLC MINGW64 /c/Aditya/BootCamp/Project/Logic/test nawadata
$ node psbb.js
Input the number of families: 8
Input the number of members in the family (separated by a space): 2 3 4 4 2 1 3 1
Minimum bus required is : 5

Aditya@DESKTOP-JLV9LLC MINGW64 /c/Aditya/BootCamp/Project/Logic/test nawadata
$ node psbb.js
Input the number of families: 5
Input the number of members in the family (separated by a space): 1 5
Input must be equal with count of family
```