Electrician Allocation System:

Let's say we have a system that manages electricians and the sites they need to work on. The system helps ensure that the right electricians are sent to the right sites. Here's a simple example:

Input:
- Electricians:
  1. Electrician A (General)
  2. Electrician B (Grievance)


```
example: {
            name: 'Pranav',
            phoneNumber: '6161232524',
            zone: ['DELHI'],
            grievanceElectrician: true
    },
    {
            name: 'Sidharth',
            phoneNumber: '6161232524',
            zone: [ 'NOIDA', 'GHAZIABAD' ],
            grievanceElectrician: false
    },
```

- Sites to be installed on a given day:
  1. Site X in City Noida (Grievance)
  2. Site Y in City Delhi (General)

```
example: y={
            name: 'KRISHNA ROY',
            phone: '6163988877',
            city: 'NOIDA',
            AssignedElectritian: [],
            InstallationDate: 2023-01-04T00:00:00.000Z,
            grievance: false
    },
    x={
            name: 'Anuj Gupta  ',
            phone: '6163988877',
            city: 'DELHI',
            AssignedElectritian: [],
            InstallationDate: 2023-10-18T00:00:00.000Z,
            grievance: true
    }
```

Process:
1. Give a button to automatically assign electricians to the sites.
2. When we click this button, the system works like this:
    - It first assigns the Grievance Electrician B to Site X because it's a grievance

site. Electrician B can handle grievances.
   - Then, it assigns Electrician A to site Y because he is a general electrician.
   - Each electrician is assigned to a maximum of three sites at a moment to keep things manageable.
   - You do not consider zone/city of electrician while handling the Grievance site and electrician as well

Output:
- After clicking the button:
  - Site X in City DELHI is assigned to Electrician B (Grievance).
  - Site Y in City NOIDA is assigned to Electrician A (General).


```
          y={
                  name: 'KRISHNA ROY',
                  phone: '6163988877',
                  city: 'NOIDA',
                  AssignedElectritian: [
                          {"electricianName": "Sidharth",
"electricianAssignDate": "2023-10-25"}
                  ],
                  InstallationDate: 2023-01-04T00:00:00.000Z,
                  grievance: false
          },
          x={
                  name: 'Anuj Gupta  ',
                  phone: '6163988877',
                  city: 'DELHI',
                  AssignedElectritian: [
                          {"electricianName": "Pranav",
"electricianAssignDate": "2023-10-25"}
                  ],
                  InstallationDate: 2023-10-18T00:00:00.000Z,
                  grievance: true
          }
```


In simple terms, this system ensures that:
- Grievance sites are handled by the Grievance electrician.
- General sites are distributed fairly among general electricians.
- No electrician is overwhelmed with too many sites to work on, that's why it is limited to three only.
- If any electrician is pending without site assignment and the site is also pending then you can assign a grievance electrician to the general site or vice-versa.

Rule to distribute electrician: number of sites on current date/number of available electricians on current date.

Things you have to do:

1. Give a page on the front end to change the installation date of the given data(sites).
2. Give a button on the page to auto-assign the site to the electrician based on the above rule.
3. Show output on a new page or directly console the output.