

## Approach:

**Steps 1:** Uploaded the CSV.

**Step 2:** From CSV I extracted the following column values ( date , shift, volunteer id, Volunteer name) and constructed an named "matrix" .

**Step 3:** Sorted the array according to shift and after that sorted the array according to date.

**Step 4:** From the matrix filtered out the rows that had the same dates.

**Step 5 :** Within the filtered array found out the volunteers name who worked in the same shift and stored them and another array named "mainarray".

**Step 6 :** Export the main array as output.csv.

## Bonus Part:

**Step1:** Covert the main array data to string by joining them;

**Step2:** Match the string them count them to find overlapping shift and save them to bonusArray.

**Step 3:** Export the bonusArray as bonusout.csv file

## Limitations:

1)

This is not an optimal solution because I did not use any graph algorithms.

2)

May be give wrong value for the last index of the array For counting shift.

## How to run:

Double click the index.html and the CSV file.