**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.**