

Shell scripting

1. Download [busybox.exe](https://frippery.org/busybox/) from <https://frippery.org/busybox/>.
2. Create C:\opt\bin
3. Copy busybox.exe to C:\opt\bin
4. Start busybox.exe

```
C:\opt\bin\busybox.exe sh -l
```

Merging CSV files in the current directory

```
# set a variable to know if a file is the first one
# because we don't want to skip the head line from the first file
first=1
# for each of *.csv file names, assign it to i
for i in *.csv; do
    # if you repeat this script, we don't want to merge
    # the previously merged file again
    if [ "$i" = "merged.csv" ]; then
        # skip this file
        continue
    fi
    # if this file is first
    if [ $first -eq 1 ]; then
        # print everything
        cat "$i"
        # subsequent files won't be first anymore
        first=0
    else
        # for non-first files, skip the first line
        tail -n +2 "$i"
    fi
done > merged.csv # forward any outputs from the above for loop
                  # to merged.csv
```

Finding the order of a column in a CSV file

```
head -1 merged.csv |
sed 's/"//g; s/,/ /g' |
awk '{
    for(i=1; i<=NF; i++)
        if($i == "TOBS")
            print i
}'
```

Counting non-null records in a column in a CSV file

```
tail -n +2 merged.csv |  
sed 's/"//g; s/,/ /g' |  
awk '{  
    if($57 != "")  
        count++  
}  
END{  
    print count  
}'
```

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