

```
import json

import pandas as pd
```

```
with open('interview-policies.json', 'r') as f:
    data = json.loads(f.read())
```

```
df = pd.DataFrame(data['data'], columns=data['fields'])
```

### Compute and output:

#### Total number of policies

```
len(data['data'])
```

```
100000
```

#### Count of policies that include a waiver of subrogation

```
sum(df['Has Waiver of Subrogation'])
```

```
49948
```

#### List of states by the sum of their Building Coverage Limit

```
df.groupby('Location State')['Building Coverage Limit'].sum()
```

```
Location State
AK      1354404000
AL      1277021000
AR      1302033000
AZ      1276073000
```

```
CA      1301775000
CO      1237416000
CT      1345233000
DE      1258751000
FL      1275849000
GA      1314357000
HI      1268562000
IA      1246920000
ID      1275667000
IL      1342401000
IN      1325381000
KS      1279724000
KY      1302604000
LA      1287238000
MA      1354120000
MD      1356508000
ME      1348200000
MI      1325393000
MN      1249770000
MO      1297153000
MS      1253193000
MT      1331916000
NC      1281371000
ND      1296444000
NE      1307185000
NH      1318368000
NJ      1288503000
NM      1254797000
NV      1314614000
NY      1264085000
OH      1307763000
OK      1302472000
OR      1279898000
PA      1266194000
RI      1267241000
SC      1292225000
SD      1269965000
TN      1244554000
TX      1280149000
UT      1270053000
VA      1320433000
VT      1298105000
WA      1317469000
WI      1329146000
WV      1242091000
WY      1343296000
Name: Building Coverage Limit, dtype: int64
```

**Convert the above JSON file (which is one large object) to a file of JSON rows where each row is a complete json object. The keys of the new rows should be the "fields" in the original file, and the**

values the corresponding value for each row.

**Sort this new file by GL Aggregate Limit**

```
# Sorting by GL Aggregate Limit, when values are equal, Pandas default
# to by index value in original json
gl_df = df.sort_values(by=['GL Aggregate Limit'],
ascending=True).to_dict('records')
```

```
with open('gl_output.json', 'w') as f:
    json.dump(gl_df, f)
```