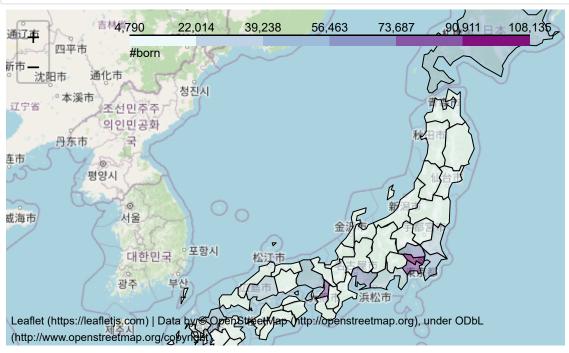
```
In [2]: import pandas as pd
         import folium
In [3]: dfa = pd.read csv('dm mid2 a.csv', header=0)
In [5]: dfa.head()
Out[5]:
                 pref
                          pop
          0
                      13159388
                Tokyo
          1
            Kanagawa
                       9048331
          2
               Osaka
                       8865245
          3
                Aichi
                       7410719
              Saitama
                       7194556
In [6]: dfb=pd.read_csv('dm_mid2_b.csv', header=0)
In [7]: | dfb.head()
Out[7]:
                 pref born
          0
                Tottori 4790
          1
                Kochi 5518
          2
              Shimane 5756
             Tokushima 5904
            Yamanashi 6651
```

Ans.1

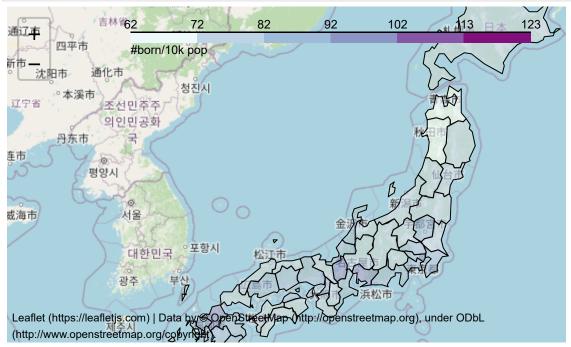
```
df=pd.merge(dfa, dfb, on='pref')
In [8]:
In [9]: | df.head()
Out[9]:
                  pref
                            pop
                                   born
           0
                 Tokyo
                       13159388
                                 108135
             Kanagawa
                        9048331
                                  78077
           1
           2
                 Osaka
                        8865245
                                  75080
                        7410719
           3
                  Aichi
                                  69872
               Saitama
                                  59437
                        7194556
```

Ans.2



Ans.3

```
In [11]: df['ratio']=df['born']/df['pop']*1.e4
```



In []: