origin

car name

memory usage: 28.1+ KB

398 non-null

398 non-null

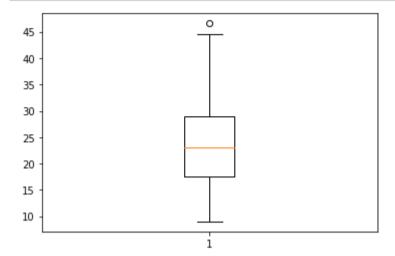
dtypes: float64(3), int64(4), object(2)

```
In [1]:
         1 import pandas as pd
         2 import matplotlib.pyplot as plt
         3 import numpy as np
         4
In [2]:
         1 df=pd.read csv('Datasets/auto-mpg.csv')
         2 df.info()
        <class 'pandas.core.frame.DataFrame'>
        RangeIndex: 398 entries, 0 to 397
        Data columns (total 9 columns):
                          Non-Null Count Dtype
             Column
            ----
             mpg
                          398 non-null
                                          float64
            cylinders
                          398 non-null
                                          int64
            displacement 398 non-null
                                          float64
             horsepower
                          398 non-null
                                          object
            weight
                          398 non-null
                                          int64
             acceleration 398 non-null
                                          float64
            model year
                          398 non-null
                                          int64
```

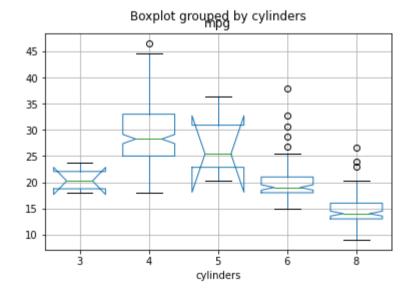
int64

object

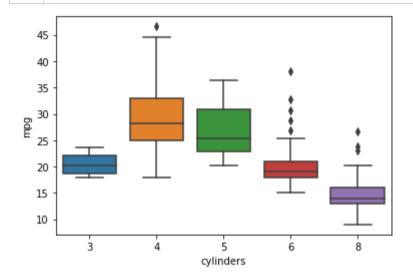
```
In [3]: 1 plt.boxplot(df.mpg)
2 plt.show()
```



```
In [4]: 1 df.boxplot(column=['mpg'],widths=0.75,notch=True,by='cylinders')
2 plt.show()
```



In [5]: 1 import seaborn as sns

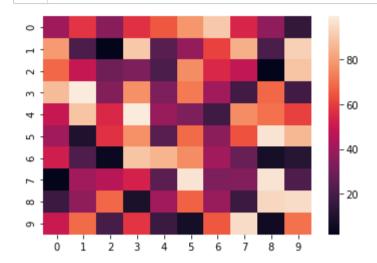


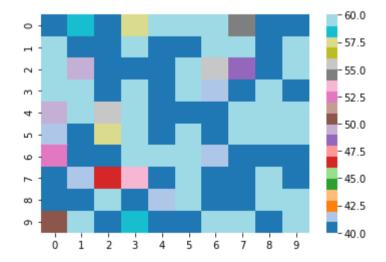
In []: 1

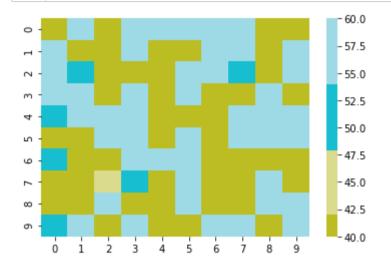
```
In [7]:
          1 x=[1,2,3,4,5,6,7]
          2 s1=[7,8,5,6,7,8,6]
          3 s2=[3,5,6,7,8,1,10]
          4 plt.scatter(x,s1,color='b')
          5 plt.scatter(x,s2,color='m')
          6 plt.show()
         10
          8
          4
          2
In [8]:
          1 data=np.random.randint(low=1,high=100,size=(10,10))
          2 print(data)
        [[40 58 35 57 65 78 90 54 37 15]
         [79 21 2 90 24 38 61 84 21 92]
         [68 49 29 33 21 76 55 48 2 89]
         [87 99 34 77 33 72 41 19 68 19]
         [49 89 55 99 39 33 18 76 70 60]
         [41 10 57 77 24 69 36 64 97 86]
         [52 22 5 89 85 76 41 28 8 12]
         [ 2 41 46 53 25 97 33 34 97 22]
         [17 37 68 9 41 67 39 17 94 95]
         [50 69 20 58 17 7 65 95 6 70]]
```

In [9]: 1 sns.heatmap(data=data)

plt.show()

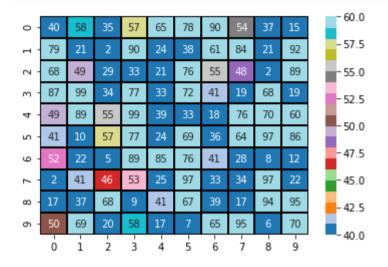








In [13]: 1 sns.heatmap(data=data,vmax=60,vmin=40,cmap='tab20',annot=True,linewidths=1,linecolor='black')
2 plt.show()



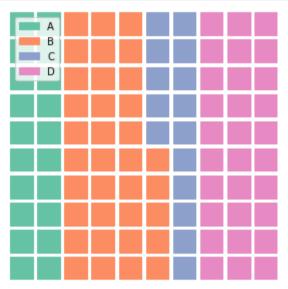


```
In [15]:
           1 d={'A':[1,2,3,4],
                'B':[5,6,7,8],
               'C':[9,10,11,12],
           3
              'D':[13,14,15,16]}
           5 df=pd.DataFrame(d)
           6 print(df)
            A B
                   C
                      D
                   9 13
                 10 14
               6
         2 3 7 11 15
         3 4 8 12 16
In [16]:
           1 sns.heatmap(df,cmap='coolwarm',annot=True)
           2 plt.show()
                                                   - 16
                         5
                                                   - 14
          0
                                                   - 12
                                 10
                         6
                                                   - 10
                                                   - 8
                         7
                                 11
                                                   -6
                         8
                                 12
                                          16
                                  ć
                         В
                                          Ď
           1 from pywaffle import Waffle
In [17]:
In [18]:
           1 data={'C':['A','B','C','D'],
```

'Value':[20,35,15,30]}

3 df=pd.DataFrame(df)

2



```
In [25]:
           1 data={'C':['A','B','C','D'],
                   'Value':[20,35,15,30]}
           2
           3 df=pd.DataFrame(data)
             fig=plt.figure(FigureClass=Waffle,
                            rows=10,
           5
                            values=df['Value'],
           6
           7
                            labels=list(df['C']),
                            legend={'loc':'upper left'},
           8
                            characters='\(\exists'\)
           9
                                          (
           C 😁
 In [ ]:
          1
 In [ ]:
         1
 In [ ]:
 In [ ]:
```