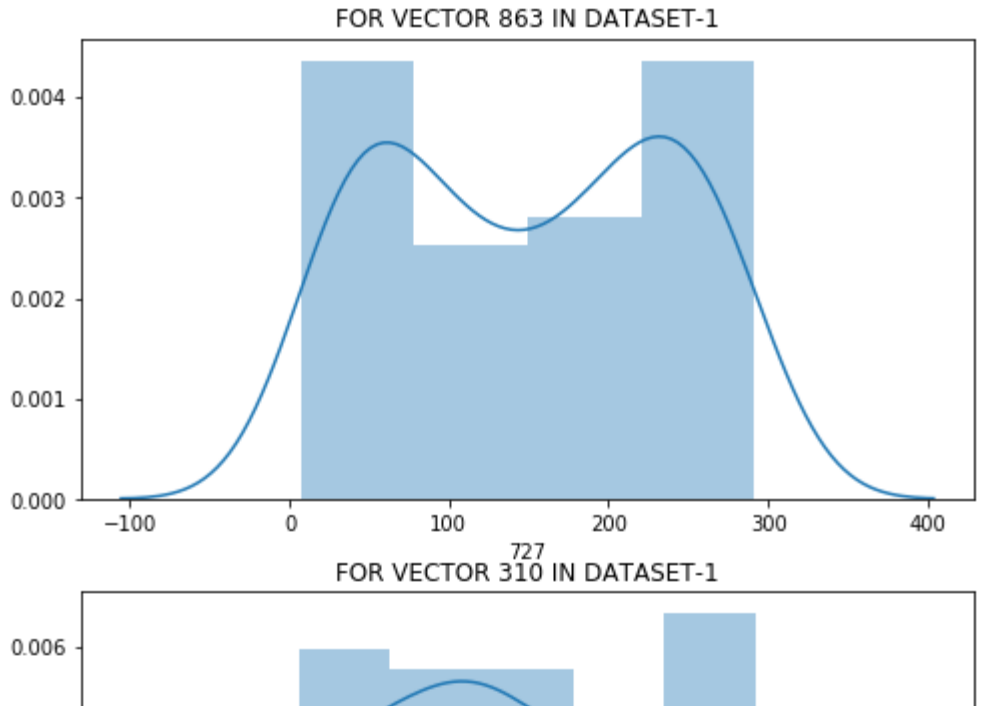
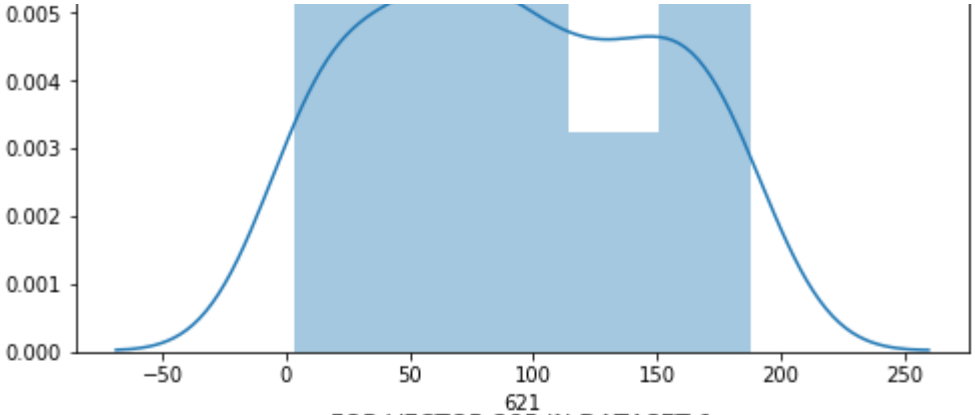
In [41]:
```
import pandas as pd
import numpy as np
import seaborn as sns1
import pylab as pl
import matplotlib.pyplot as plt
import scipy.stats as stats
import random
%matplotlib inline
# DATASET1
dataset1_1=pd.read_csv('dist1_500_1.txt',sep=" ",header=None);
dataset1_1.dropna(how="all", inplace=True)
dataset1_2=pd.read_csv('dist1_500_2.txt',sep=" ",header=None);
dataset1_2.dropna(how="all", inplace=True)
dataset1=pd.concat([dataset1_1,dataset1_2])
fig, axs1 = plt.subplots(10,figsize=(8,50))
for i in range(0,10):
    v1=random.randint(0,1000)
    dfr1=dataset1.iloc[v1]
    Min = min(dfr1)
    Max = max(dfr1)
    print("Random pick vector "+str(v1)+" has Min "+str(Min)+" and Max "+ str
    sns1.distplot(dfr1,ax=axs1[i])
    axs1[i].set_title("FOR VECTOR "+str(v1)+" IN DATASET-1")
```

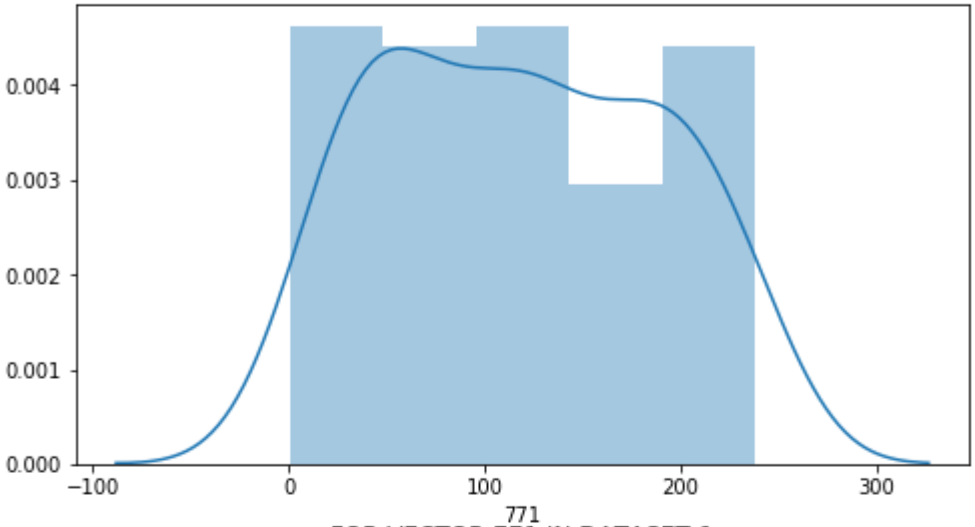
```
Random pick vector 863 has Min 6.9539 and Max 291.32
Random pick vector 310 has Min 2.9662 and Max 187.99
Random pick vector 385 has Min 0.27601 and Max 238.04
Random pick vector 771 has Min 1.5734 and Max 89.786
Random pick vector 95 has Min 0.057914 and Max 186.06
Random pick vector 998 has Min 0.8645799999999999 and Max 233.66
Random pick vector 782 has Min 2.2887 and Max 118.64
Random pick vector 112 has Min 0.82232 and Max 193.6
Random pick vector 803 has Min 2.2677 and Max 110.92
Random pick vector 737 has Min 11.805 and Max 233.82
```





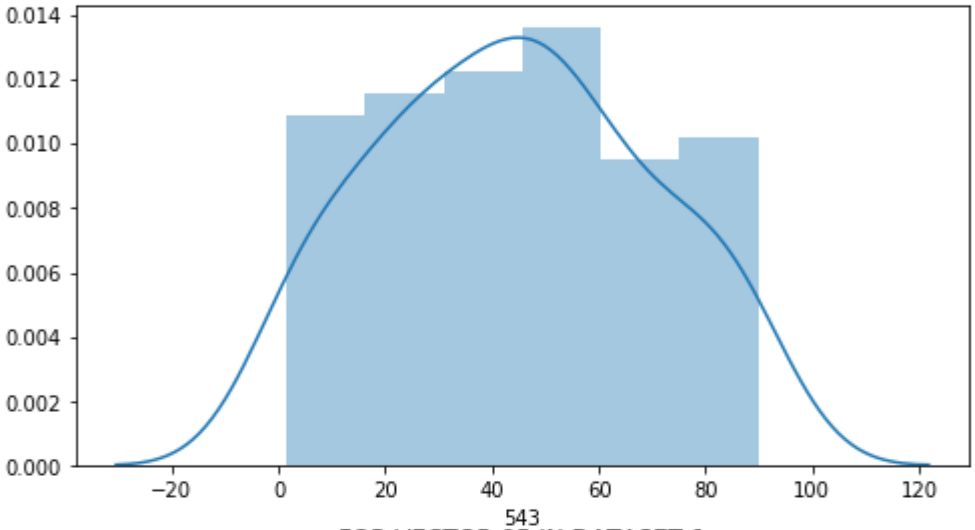
621

FOR VECTOR 385 IN DATASET-1



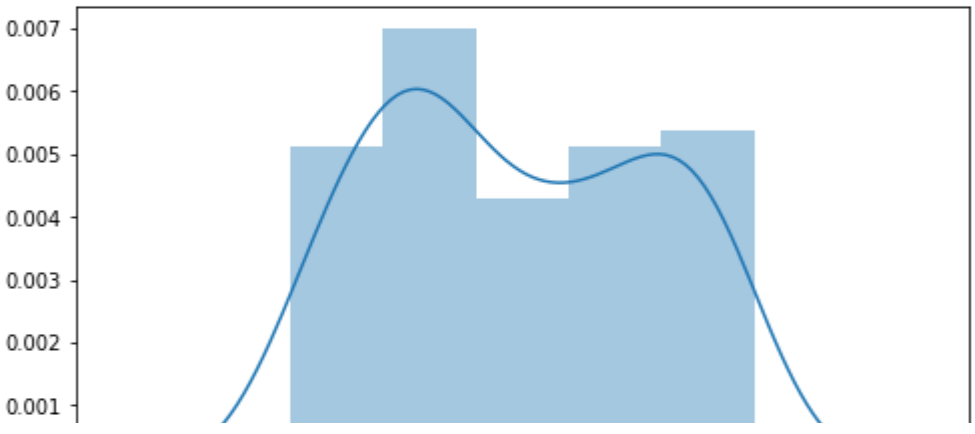
771

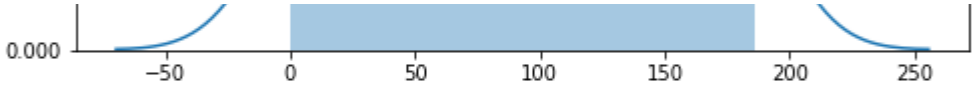
FOR VECTOR 771 IN DATASET-1



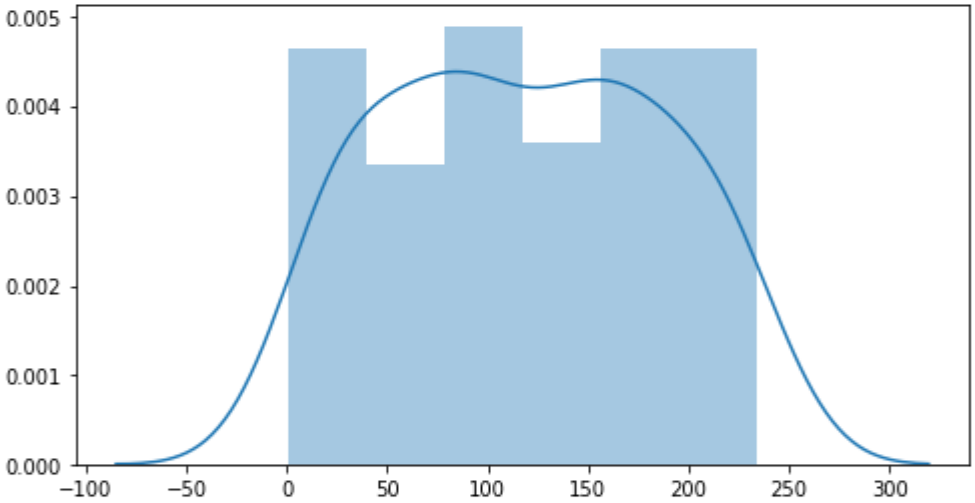
543

FOR VECTOR 95 IN DATASET-1

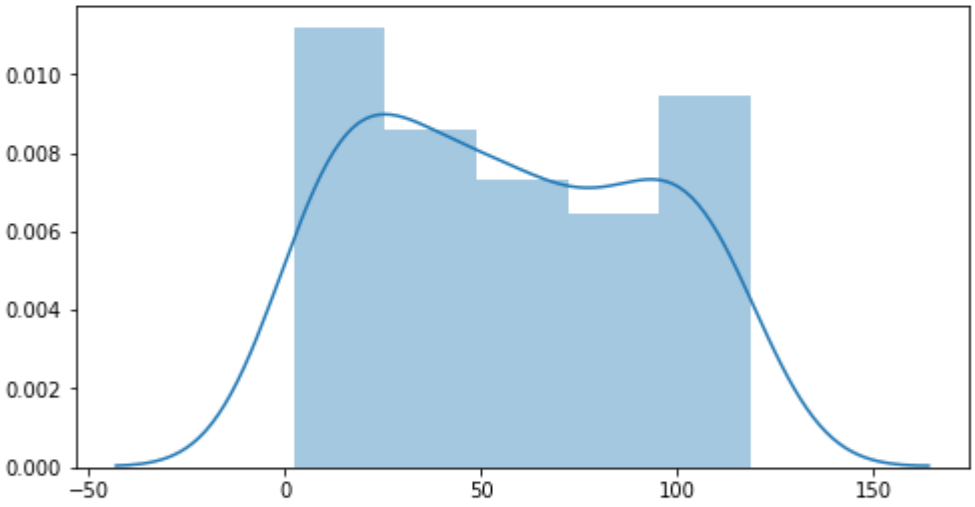




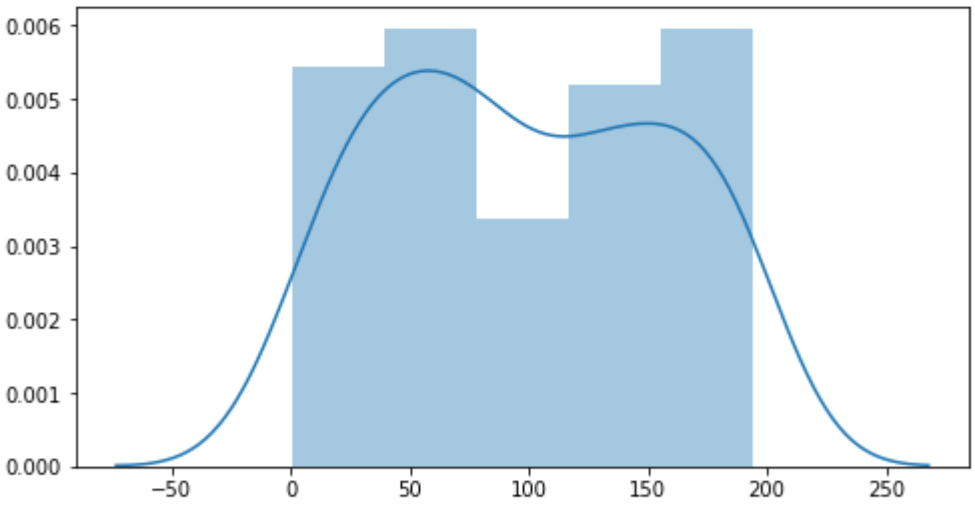
191
FOR VECTOR 998 IN DATASET-1



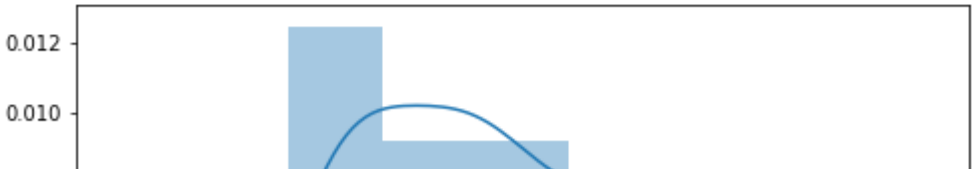
997
FOR VECTOR 782 IN DATASET-1

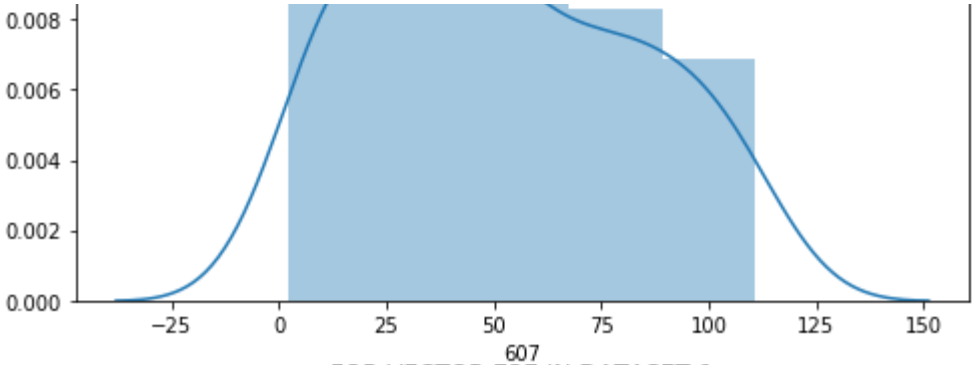


565
FOR VECTOR 112 IN DATASET-1

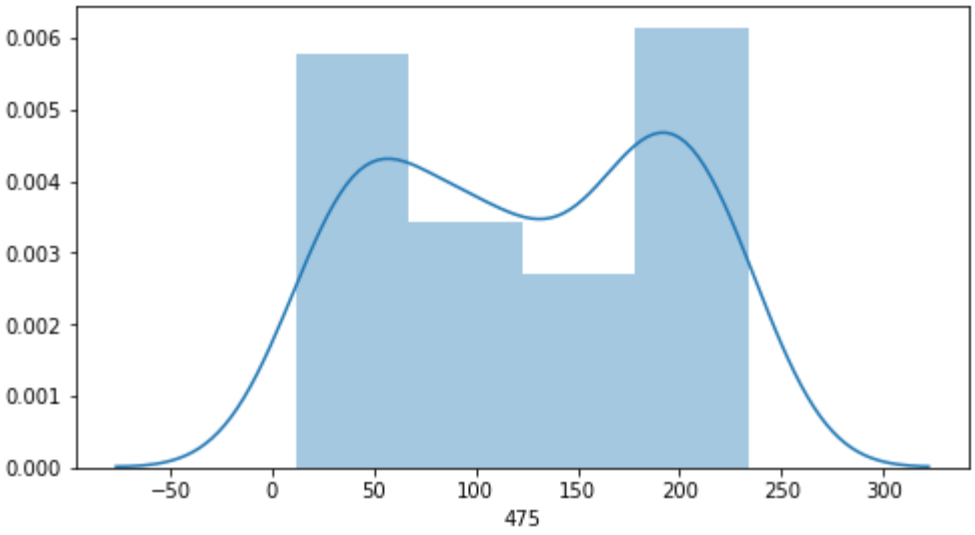


225
FOR VECTOR 803 IN DATASET-1



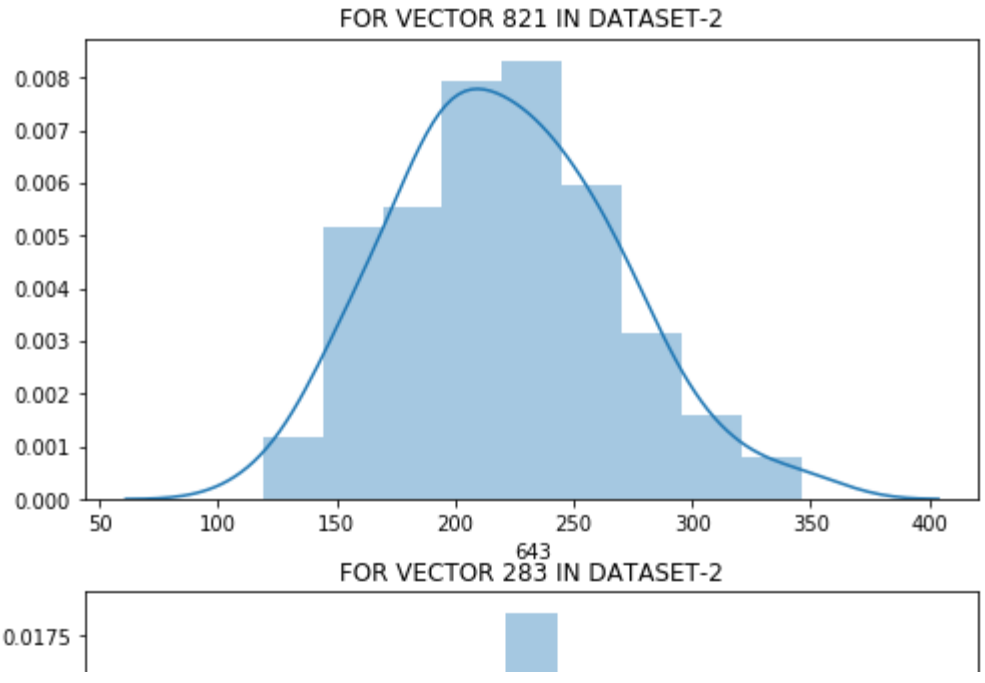


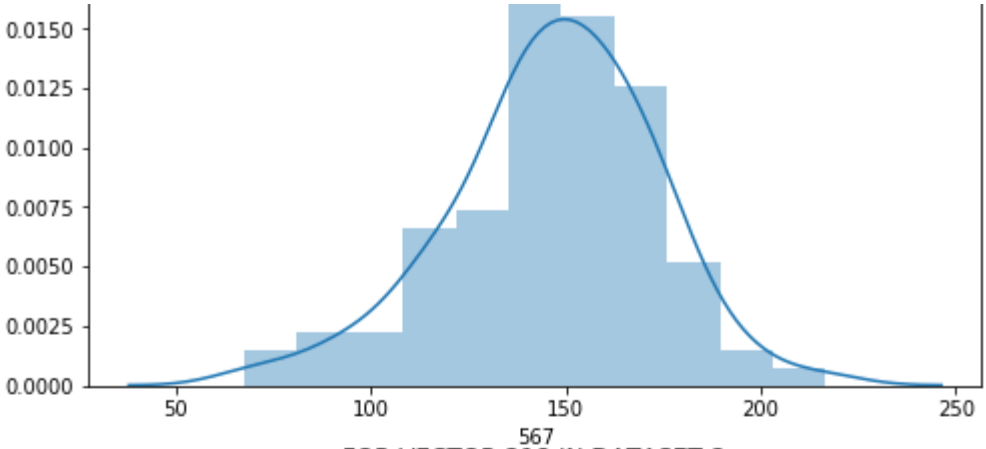
FOR VECTOR 737 IN DATASET-1



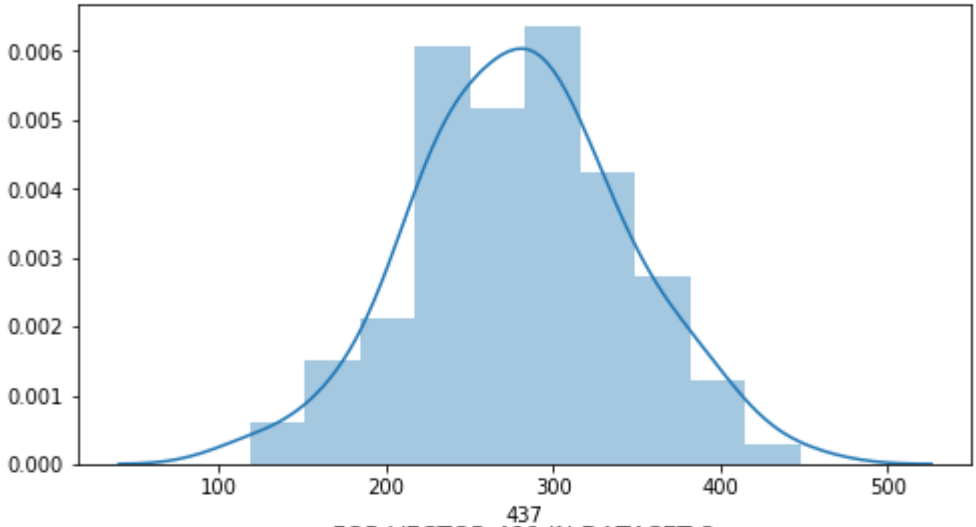
In [42]:
```
# DATASET 2
dataset2_1=pd.read_csv('dist2_500_1.txt',sep=" ",header=None);
dataset2_1.dropna(how="all", inplace=True)
dataset2_2=pd.read_csv('dist2_500_2.txt',sep=" ",header=None);
dataset2_2.dropna(how="all", inplace=True)
df2=pd.concat([dataset2_1,dataset2_1])
fig, axs2 = plt.subplots(10,figsize=(8,50))
for i in range(0, 10):
    v2=random.randint(0,1000)
    dfr2=df2.iloc[v2]
    c1= np.mean(dfr2)
    c2 = np.std(dfr2)
    print("Random pick vector "+str(v1)+" has MEAN "+str(c1)+" and standard d
    sns1.distplot(dfr2,ax=axs2[i])
    axs2[i].set_title("FOR VECTOR "+str(v2)+" IN DATASET-2")
```

```
Random pick vector 737 has MEAN 220.85010000000005 and standard deviation4
6.324304279611155
Random pick vector 737 has MEAN 146.57698 and standard deviation26.32082057
0407754
Random pick vector 737 has MEAN 280.4581 and standard deviation62.833055960
935084
Random pick vector 737 has MEAN 217.09020000000012 and standard deviation4
1.995356528549685
Random pick vector 737 has MEAN 287.8873999999999 and standard deviation52.
848499138953805
Random pick vector 737 has MEAN 275.0513 and standard deviation56.462440058
05984
Random pick vector 737 has MEAN 249.80680000000004 and standard deviation5
0.176911341372936
Random pick vector 737 has MEAN 146.30497999999992 and standard deviation3
0.85638239618507
Random pick vector 737 has MEAN 272.2113000000001 and standard deviation60.
40833456825308
Random pick vector 737 has MEAN 212.98379999999997 and standard deviation4
3.856164350750056
```

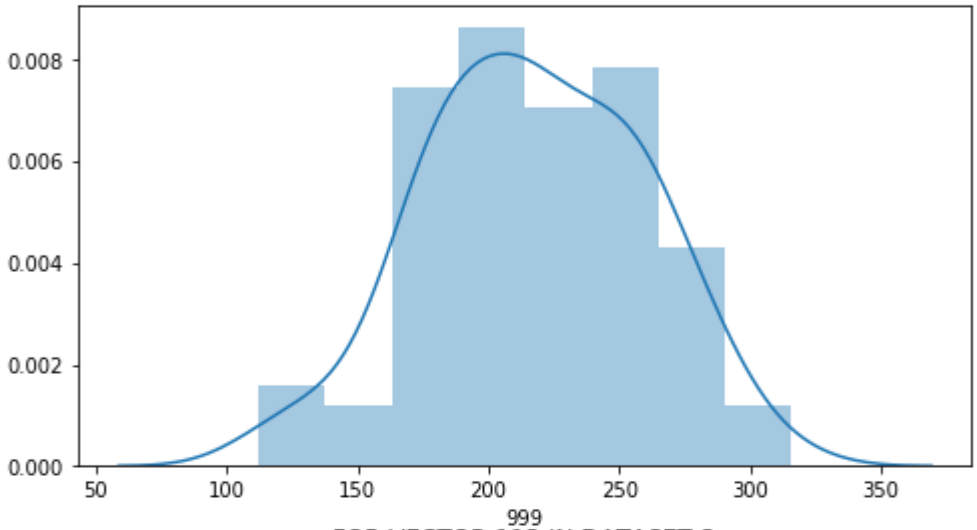




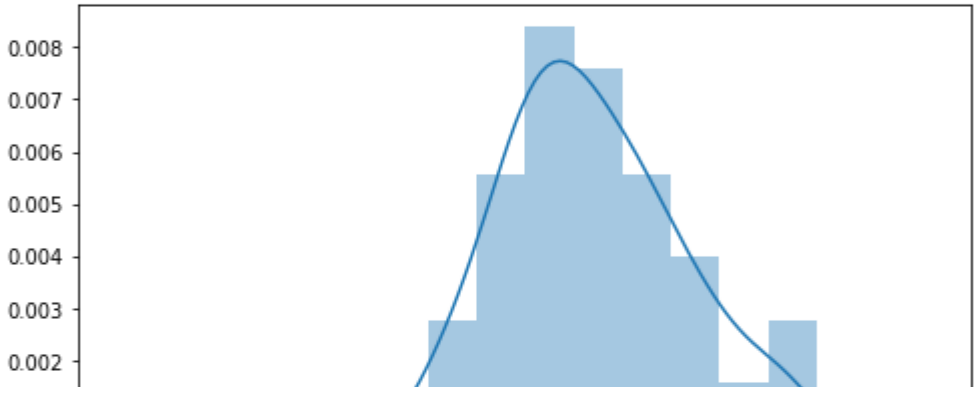
567
FOR VECTOR 218 IN DATASET-2

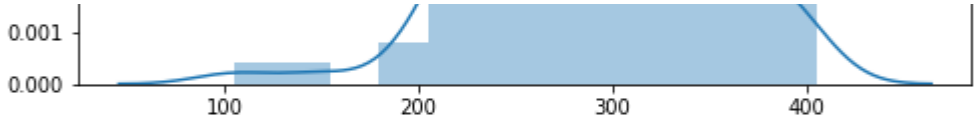


437
FOR VECTOR 499 IN DATASET-2



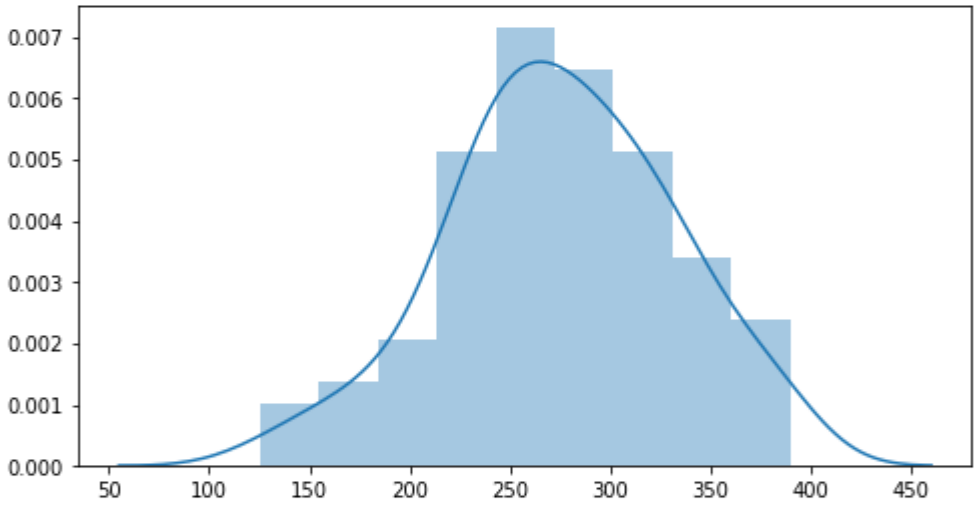
999
FOR VECTOR 113 IN DATASET-2





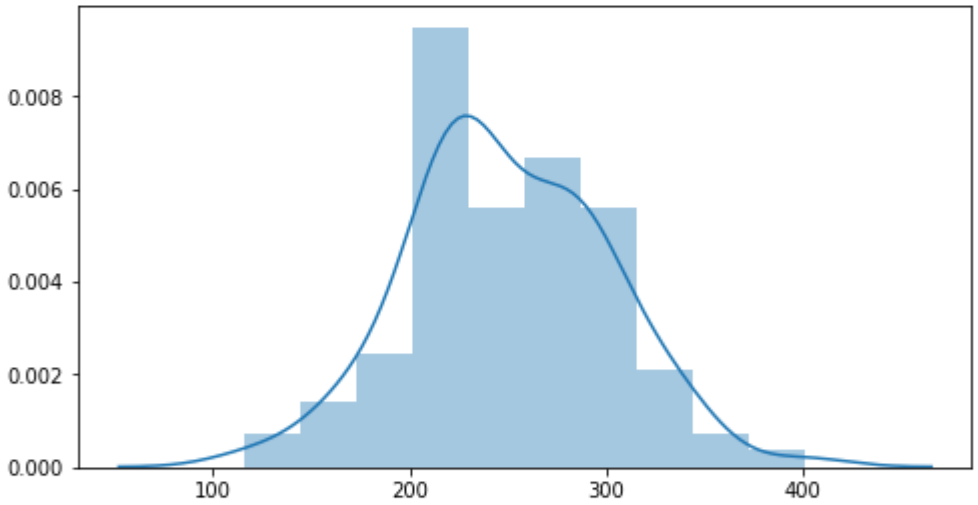
227

FOR VECTOR 422 IN DATASET-2



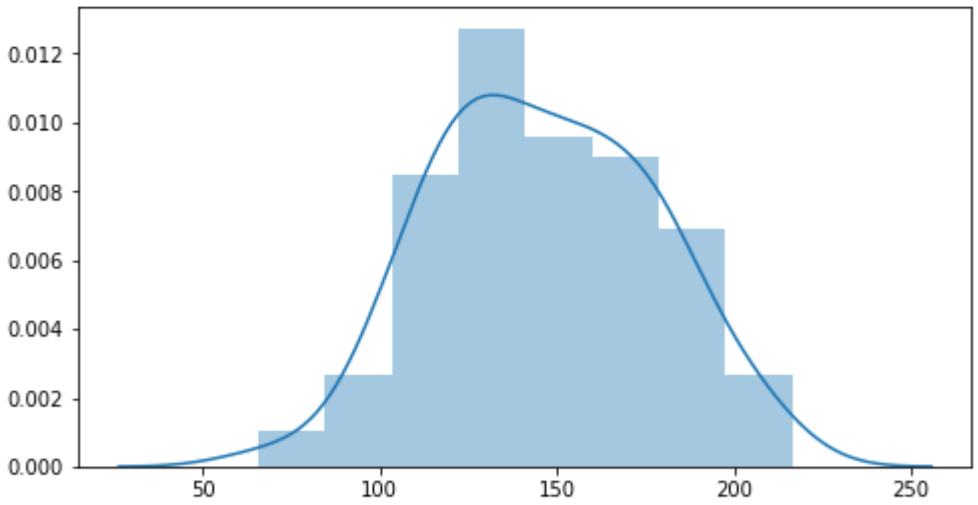
845

FOR VECTOR 509 IN DATASET-2



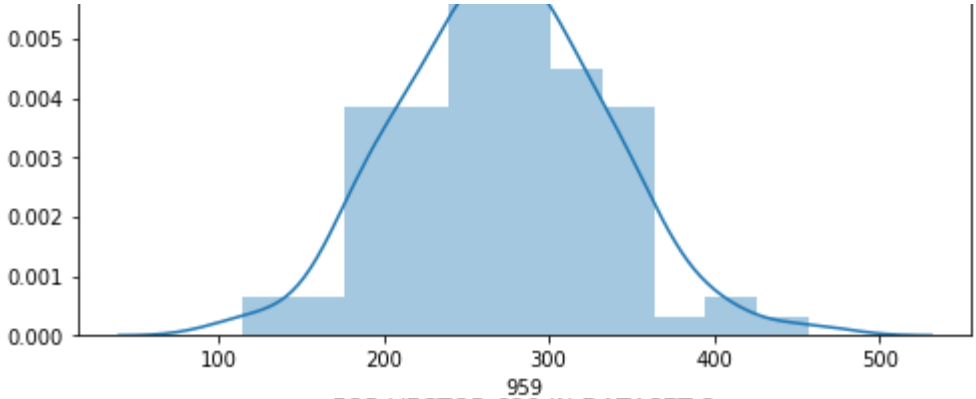
19

FOR VECTOR 312 IN DATASET-2

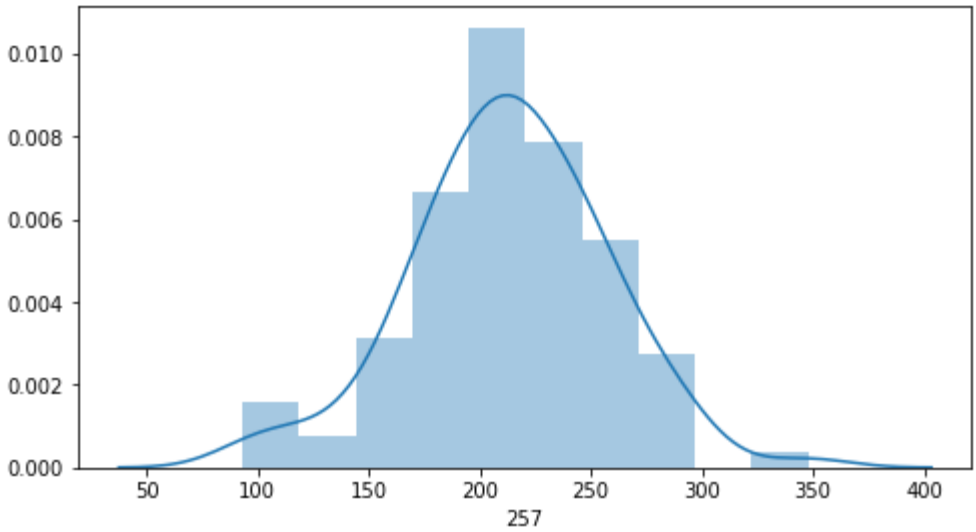


625

FOR VECTOR 979 IN DATASET-2



FOR VECTOR 628 IN DATASET-2



In [ ]: