

```
#4

import numpy as np
array=np.random.randint(1,100,16)
array
array.mean()
np.percentile(array,25)
np.percentile(array,50)
np.percentile(array,75)
np.percentile(array,100)
def outDetection(array):
    sorted(array)
    Q1,Q3=np.percentile(array,[25,75])
    IQR=Q3-Q1
    lr=Q1-(1.5*IQR)
    ur=Q3+(1.5*IQR)
    return lr,ur

lr,ur=outDetection(array)
lr,ur

import seaborn as sns
%matplotlib inline
sns.distplot(array)
sns.distplot(array)
new_array=array[(array>lr) & (array<ur)]
new_array
sns.distplot(new_array)
lr1,ur1=outDetection(new_array)
lr1,ur1
final_array=new_array[(new_array>lr1) & (new_array<ur1)]
final_array
sns.distplot(final_array)
```

```
/tmp/ipython-input-1810417697.py:25: UserWarning:  
`distplot` is a deprecated function and will be removed in seaborn v0.14.0.  
Please adapt your code to use either `displot` (a figure-level function with  
similar flexibility) or `histplot` (an axes-level function for histograms).  
For a guide to updating your code to use the new functions, please see  
https://gist.github.com/mwaskom/de44147ed2974457ad6372750bbe5751
```

```
sns.distplot(array)  
/tmp/ipython-input-1810417697.py:33: UserWarning:  
`distplot` is a deprecated function and will be removed in seaborn v0.14.0.  
Please adapt your code to use either `displot` (a figure-level function with  
similar flexibility) or `histplot` (an axes-level function for histograms).  
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