```python
import numpy as np
import seaborn as sns
%matplotlib inline

array = np.random.randint(1,100,16)
print(array)

print(array.mean())
print(np.percentile(array,25))
print(np.percentile(array,50))
print(np.percentile(array,75))
print(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)
print(lr, ur)

sns.displot(array)
sns.distplot(array)

new_array = array[(array > lr) & (array < ur)]
print(new_array)

sns.displot(new_array)

lr1, ur1 = outDetection(new_array)
print(lr1, ur1)

final_array = new_array[(new_array > lr1) & (new_array < ur1)]
print(final_array)
```

```
[63 38 63  5 58 80 40 69 83 34 18  2 99 10 97 73]
52.0
30.0
60.5
```
```
74.75
99.0
-37.125 141.875
/tmp/ipython-input-4193430321.py:26: 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)
[63 38 63  5 58 80 40 69 83 34 18  2 99 10 97 73]
-37.125 141.875
[63 38 63  5 58 80 40 69 83 34 18  2 99 10 97 73]
```