```
In [1]: import numpy as np
        from scipy import stats
import statistics
In [2]: data = np.array([34,
                           45,
                          40,
                          46,
                          38,
                           47,
                          36,
                          38,
                          34,
                          33,
                          36,
                          43,
                          43,
                          37,
                          38,
                           32,
                          38,
                          40,
                           33,
                          38,
                          40,
                          48,
                          39,
                           32,
                          36,
                           40,
                           40,
                          36,
                           34])
In [3]: mode = statistics.multimode(data)
        [40, 38]
Out[3]:
In [4]:
         median = np.median(data)
         print(f"Median: {median}")
         Median: 38.0
In [5]: mean = np.mean(data)
         mean
        38.3
Out[5]:
In [6]: un_std = stats.tstd(data)
         un_std
        4.387678673049228
Out[6]:
In [7]: std_mean = un_std/np.sqrt(len(data))
         std_mean
Out[7]: 0.8010768614377989
In [8]: # ans for 13
         n = (un_std/(0.01*mean))**2
         n
Out[8]: 131.24177094349974
```

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