Homework 1

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make changes later

Import Section

In [7]:
```
import numpy as np
import matplotlib.pyplot as plt
import seaborn as sns
import pandas as pd
import stemgraphic as stg
import statistics
```

Problem 35

Part A

Based on the stem and leaf plot below, we can assume that the median will be about the same as the mean because the plot is well centered.

In [16]:
```
# Note that the time is in seconds
data = [389,356,359,363,375,424,325,394,402,373,373,370,364,366,364,325,339,393,392,369,37
arr = np.array(data)
stg.stem_graphic(arr,scale=10,asc=False)
```

Out[16]:
```
(<Figure size 540x252 with 1 Axes>, <Axes:>)
```

Part B

The mean and median have been calculated below.

In [17]:
```
median = statistics.median(data)
mean = statistics.mean(data)
```

```
print("Median: " + str(median))
print("Mean: " + str(mean))
```

```
Median: 369.5
Mean: 370.6923076923077
```

In [ ]:

In [ ]: