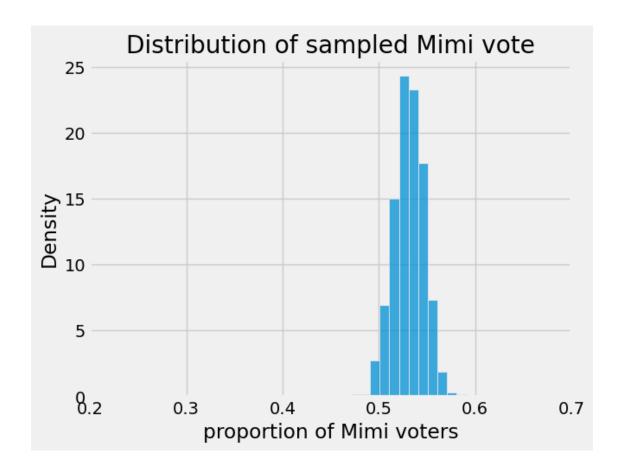
## 0.0.1 Question 2b

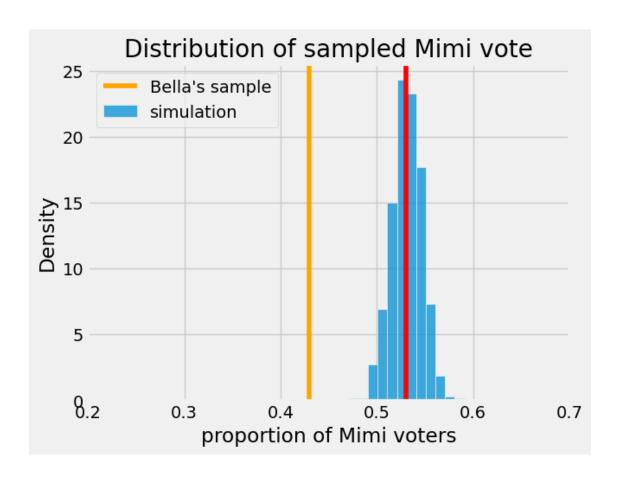
Create a plot using any seaborn and/or matplotlib.pyplot functions of your choice function of your choice to visualize samples, which is the simulated distribution of a sample Mimi vote. Include descriptive title and labels. An example is included below. The total area under the plot must be normalized to 1. Your plot may not match exactly to ours due to randomness of the data generating process.



## 0.0.2 Question 2c

According to Bella's own 50-person sample, 43% of her discussion section reported that they would vote for Mimi in the end-of-semester contest.

In the cell below, create a plot using any seaborn and/or matplotlib.pyplot functions of your choice to visualize Bella's sample statistic superimposed on the simulated sample distribution you plotted in the previous part. In other words, include a vertical line that passes through 43%, a vertical line that passes through the mean fo the simulated sample distribution, and the simulated sample distribution itself. You should choose contrasting colors and include descriptive title, labels and a legend if needed. An example is included below.



## 0.0.3 Question 2d

Based on your analysis above, could Bella's result have arisen due to chance? If not, what could be a potential source of bias?

I think Bella's result is not rising because of chance. There's more likely a non-response bias not showing up in the dataset, e.g. gender of her sampling frame, etc.