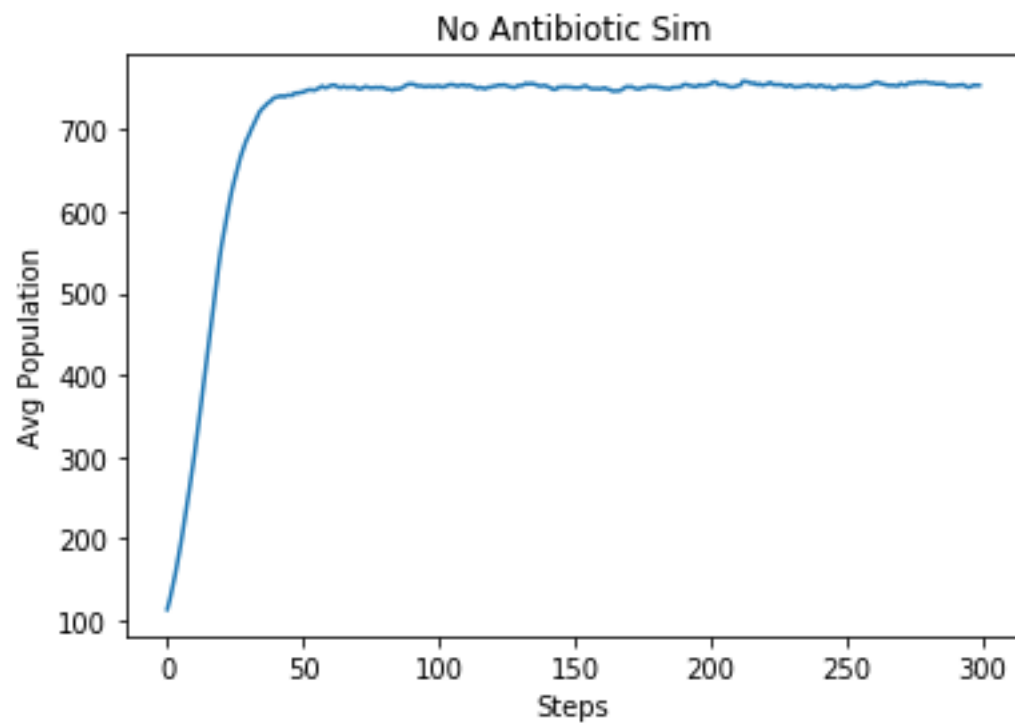


Philip Nguyen

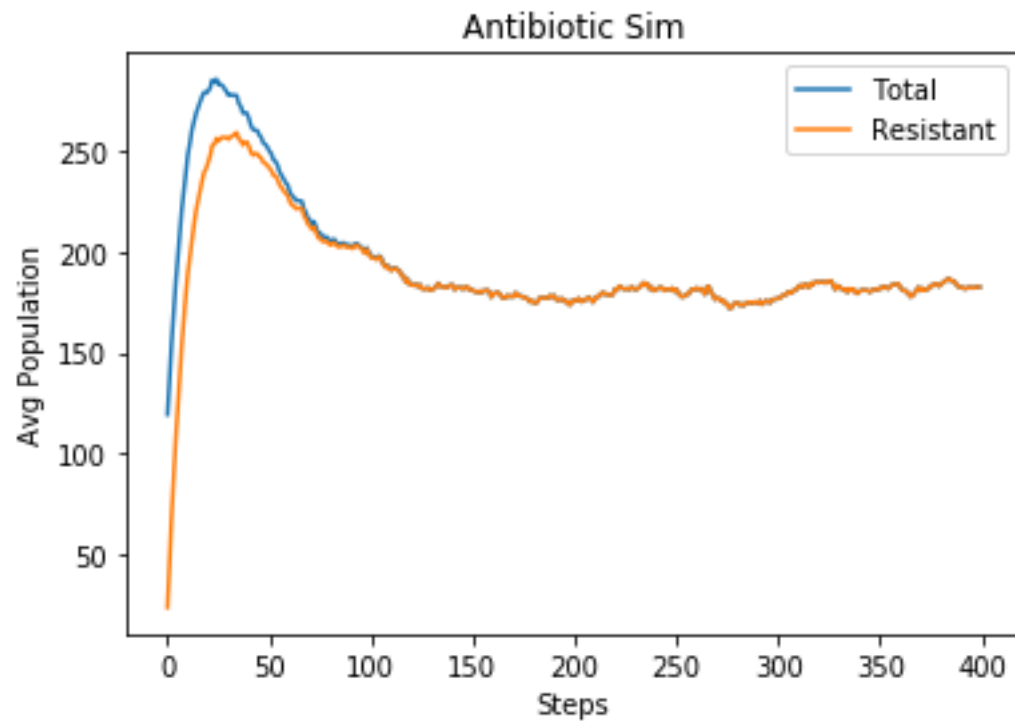
Isaiah Kremer

PS4 write up



We have mean 748.88, with a width of 4.8799

So, our 95% confidence interval is between 744.00 and 753.76

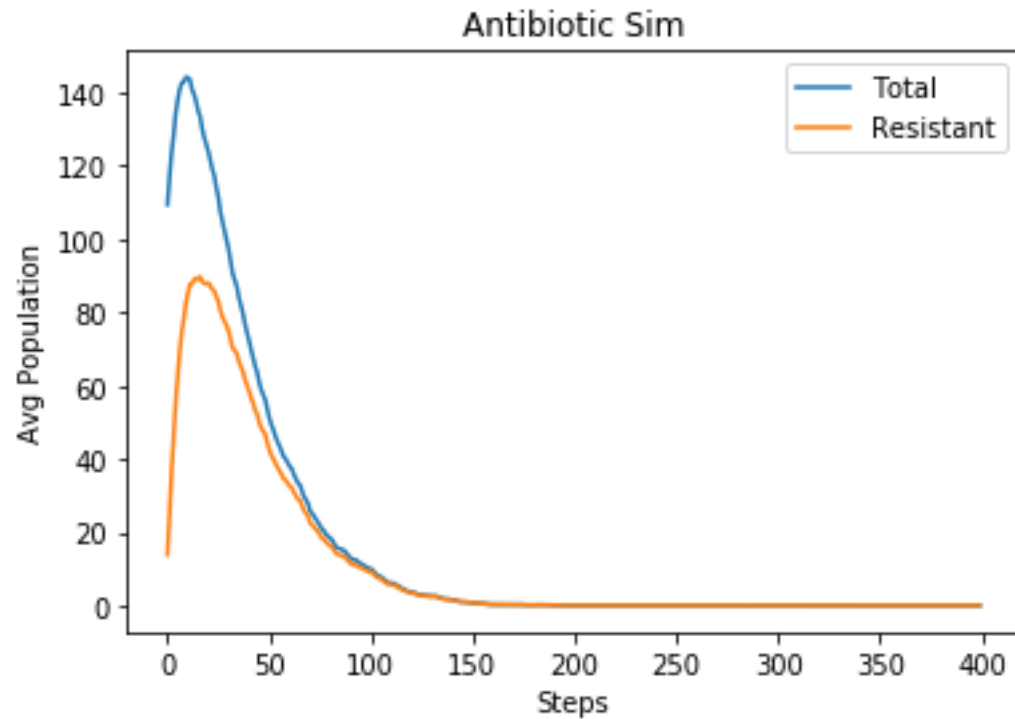


Above is Sim A,

We have mean of 176.56,

Our 95% confidence interval is between 169.22 and 183.9

For both Resistant bacteria and total bacteria



Above is Sim B,

We have mean of 0 for total population of bacteria,

We have mean of 0 for resistant population of bacteria

Our 95% confidence interval is between 0 and 0 for both.

Trends of Sim A and B,

- 1.) Before introducing antibiotic, the total population declines more than the resistant population.
- 2.) Before introducing antibiotic, the resistant population declines slowly but then eventually becomes flatter.
- 3.) After they are given the antibiotic total population declines slower and eventually converge with resistant population.
- 4.) After they are given the antibiotic resistant population barely declines and settles.