

Conclusion:

By randomly sampling with 100 restaurants of each in Yelp website, we could generally conclude that the health condition of San Francisco is better than Washington, DC.

1. Evaluation of Min: San Francisco 65 points > Washington, DC 36 points
2. Evaluation of Mean: San Francisco 89 points > Washington, DC 85 points
3. Evaluation of Standard Deviation: San Francisco 6.8 > Washington, DC 11.7

By doing the T-test, we found that the p-value is 0.017 that is less than 0.05 which means that there is not significant statistically different between these two sub-population. However, we could conclude that the health condition of restaurants in San Francisco is better than Washington, DC in general by evaluating the values of Min, Mean, Median. Also, we could conclude that the health condition of restaurants in San Francisco reach a more stable level than Washington, DC by evaluating the Standard Deviation.

To sum up, Although the health condition of restaurant in Washington, DC reach a high level condition, it stills needs an improvement for some restaurants. Considering with some restaurants which got points less than 50 points might be connected with the foodborne disease, I highly recommend that Washington, DC should be chosen if the country plans to invest a limited amount of money to improve the health condition of its public buildings between San Francisco and Washington, DC.