Stage 3 – Step b

Total number of users from Nebraska fan200 = 37

Processing time: 0.0787 seconds

Total number of users from Nebraska fan10 = 37

Processing time: 0.0648 seconds

Total users between 8-9am fan200: 1519

Processing time: 0.314 seconds

Total users between 8-9am fan10: 1522

Processing time: 0.269 seconds

Total Nebraska users between 8am – 9am fan10: 28

Processing time: 0.114 seconds

Total Nebraska users between 8am – 9am fan200: 28

Processing time: 0.128 seconds

Nebraska user that send most messages between 8am – 9am fan10: 986

Processing time: 0.159 seconds

Nebraska user that send most messages between 8am – 9am fan200: 986

Processing time: 0.161 seconds

Conclusion: It appears as if though the B+ implementation is consistently faster on larger volumes of data, but they're similar on small amounts of data. Which is to say, if n is small, the results may be negligible. If n is large, the B+ tree implementation wins by large amounts and scales very well