Areege Chaudhary
10197607
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CISC235 Assignment 4: Conclusion

n	Average % by which the total weight using BFS is larger than the total weight using Prim's algorithm
20	152.03
30	213.85
40	259.32
50	290.90
60	321.28

In every case, no matter how many vertices the graph was made up of, using Breadth First Search always resulted in a greater total weight in comparison to using Prim's algorithm. However, as the n value increased, the percentage by which the total weight using BFS was greater seemed to increase. Therefore meaning that as the number of vertices in the network increased, using Prim's algorithm over BFS made the task increasingly more efficient.

I confirm that this submission is my own work and is consistent with the Queen's regulations on Academic Integrity.