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Program 2

The difference between addFirst using a linked list, and add for the array list actually was not totally ridiculous. However, when compared to the regular add method of linked list, both are incredibly slow. On my slow laptop, it took my computer 5713 milliseconds to insert the 10 million items, although it was lot linear time increase, it quickly did say 500,000 then would pause before inserting the next 500,000 and then pause and so on and so on. However this happened with each run. Regardless, for the regular add for linked list, it took my computer 1548 milliseconds, and with the addFirst it took 6870 milliseconds.

So clearly, linked list have incredibly fast add method when adding to the end. Then array list are the next fastest for insertions. Finally, adding to the beginning of the linked list is the slowest.