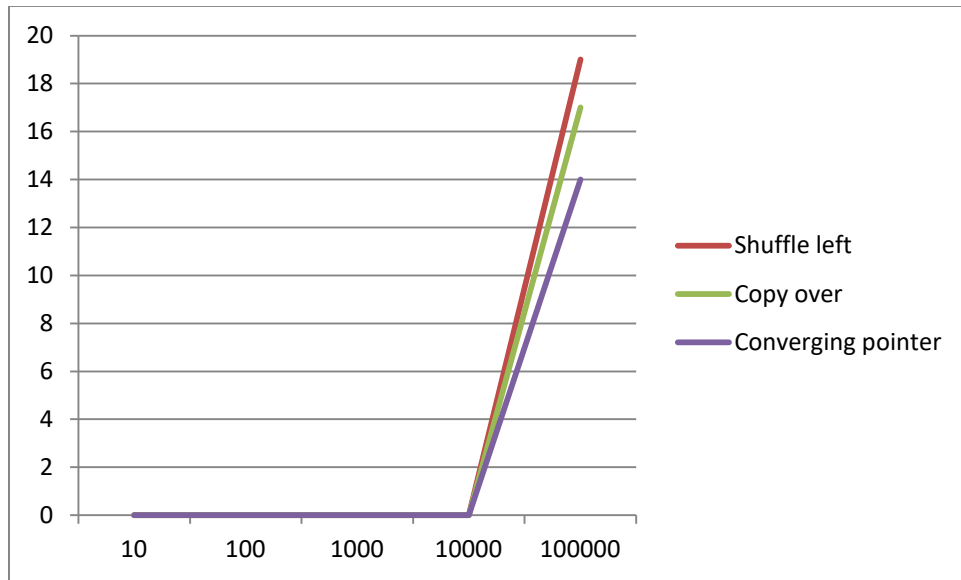# Data Cleanup Algorithms

Justification:

'Shuffle left algorithm', 'Copy over algorithm' and 'Converging pointer algorithm' work with same efficiency with data input size 10, 100, 1000.

When data input changed with 100000, then it takes 14 cycles time for 'Converging Pointer algorithm', 17 cycle times for 'Copy over algorithm' and 19 cycles time for 'Shuffle Left algorithm'.

For 'Shuffle Left', algorithm shifts every number other that 0 to list's left position. If list size increases, execution time also increases. For 'Copy over', algorithm copies non-zero data to another list so it takes less time than 'Shuffle left. For 'Converging pointer', algorithm keeps two pointers. One pointer at left side of list and another is at right side of list. Right pointer is for zero values and left pointer is for non-zero values.

Among three algorithms, Conversion pointer algorithm takes less time than Copy over and shuffle left algorithm.

Name-Ankita Parulekar