**CONCLUSION**

Merge sort is one of the most powerful sorting algorithms. Merge sort is widely used in various applications as well. The best part about these algorithms is that they are able to sort a given data in **O(nlogn)** complexity. The multiway merge sort algorithm is very scalable through its high parallelization capability, which allows the use of many processors. This makes the algorithm a viable candidate for sorting large amounts of data, such as those processed in computer clusters. Moreover, merge sort is of interest because it creates an excellent case study for one of the widely used techniques in Computer Science divide and conquer.

**Applications**

* Merge Sort is useful for sorting linked lists in O(n Log n) time.
* Merge sort can be implemented without extra space for linked lists.
* Merge sort is used for counting inversions in a list.
* Merge sort is used in external sorting.

**FUTURE ENHANCEMENTS**

This project has been designed using C++, which works on the ubuntu platform. The project can be designed using other languages and better graphical interfaces. The following features could have been incorporated. The project has a very vast scope in future. The project can be implemented on intranet in future. Project can be updated in near future as and when requirement for the same arises, as it is very flexible in terms of expansion. With the proposed software of database Space Manager ready and fully functional the client is now able to manage and hence run the entire work in a much better, accurate and error free manner. The following are the future scope for the project. Linked List can be implemented. Different shading effects can be added. We can give transparency and fogging to the objects. User Inputs can be enabled. Visuals other than bar graph can be used to enhance use understanding.

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