

Report on Simulation of merge sort and quick sort

Course : CSE204: Data Structures Sessional

Machine Configuration :

Processor	: Intel(R) Core(TM) i7-7700K CPU @ 4.20GHz 4.20 GHz
Ram	: 8.00 GB (789 GB usable)
System Type	: 64 bit Operating System, x64 based processor
Operation System	: Windows 10 Pro

Complexity :

Merge Sort :

Best Case : $O(n \lg(n))$

Average Case : $O(n \lg(n))$

Worst Case : $O(n \lg(n))$

Quick Sort :

Best Case : $O(n \lg(n))$

Average Case : $O(n \lg(n))$

Worst Case : $O(n^2)$

Regards

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