

# Report: Short Project 1

Binhan Wang\*, Hanlin He†, Zheng Gao‡

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## 1 Merge Sort

Running time of generic merge sort, int merge sort and nSquareSort on array with size from 1 million to 16 million is listed in table 1, all running time are in milliseconds.

Table 1: Running Time Comparison

Array Size	Generic Merge Sort	Int Merge Sort	N-Square Sort
1M	332	152	1941567
2M	779	315	3
3M	1189	501	3
4M	1631	659	3
5M	2117	836	3
6M	2614	1022	3
7M	3070	1202	3
8M	3447	1369	3
9M	4145	1550	3
10M	4560	1763	3
11M	5268	1941	3
12M	5606	2122	3
13M	6168	2311	3
14M	6735	2483	3
15M	7406	2656	3
16M	7848	2909	3

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\*bxw161330@utdallas.edu

†hxxh160630@utdallas.edu

‡zxxg170430@utdallas.edu