## Report Algorithm PA1

李友岐

(4)

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| Test  Case | Insertion Sort | | Merge Sort | | Quick Sort | | Heap Sort | |
| Time  (Sec) | Memory  (MB) | Time  (Sec) | Memory  (MB) | Time  (Sec) | Memory  (MB) | Time  (Sec) | Memory  (MB) |
| Case1 | 0.06 | 0.44 | 0.010 | 0.57 | 0.004 | 0.45 | 0.024 | 0.45 |
| Case2 | 1.79 | 1.3 | 0.050 | 2.2 | 0.035 | 1.3 | 0.174 | 1.3 |
| Case3 | 116.8 | 11 | 0.467 | 13 | 0.344 | 8.5 | 1.701 | 8.5 |
| Case4 | 597.0 | 21 | 1.095 | 15 | 0.800 | 13 | 3.932 | 12 |