# Heap sort

time (nlogn)oComplexity

Merge Sort Sort

complexity time O(nlogn)

T(n) = O(nlogn)

|  |  |  |  |
| --- | --- | --- | --- |
| size | Ternary\_Merge | mergeSort | heapSort |
| 10 | 3 | 8 | 1 |
| 100 | 11 | 24 | 19 |
| 1000 | 85 | 293 | 261 |
| 10000 | 722 | 2473 | 2871 |
| 100000 | 10134 | 36916 | 47240 |

توقف عند 3\*10^5



