

Heapsort (Time Complexity)

best, average and worst case time complexity of the heapsort algorithm. (Reading time: under 1 minute)

T I M E			S P A C E
Best	Average	Worst	Worst
$O(nk)$	$O(nk)$	$O(nk)$	$O(n + k)$

Best, average and worst:

The size of the input array that we want to sort, gets heapified **n** times.

Worst space:

There are **five** constant variables: `n`, `i`, `max`, `left` and `right`.