	inplace?	stable?	worst?	average?	best	remarks
selection	✓		n ² /2	n ² /2	n ² /2	N exchanges
insertion	✓	✓	n ² /2	n ² /4	N	use for small N or partially ordered
shell	✓		?	?	N	tight code, subquadratic
merge		✓	N lg N	N lg N	N lg N	N log N guarantee, stable
quick	✓		n ² /2	2N In N	N lg N	N log n probalistic guarantee fastest
						in practice
3-way	✓		n²/2	2 N In N	N	improves quicksort in presence of
quick						duplicate keys
heapsort	✓		2 N lg N	2 N lg N	N lg N	N log N guarantee, in place
???	✓	✓	N lg N	N lg N	N lg N	holy grail sorting.