Sorting summary

	inplace?	stable?	worst	average	best	remarks
selection	✓		n ² /2	n ² /2	n ² /2	N exchanges
insertion	✓	✓	n²/2	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	✓		n²/2	2N ln N	N lg N	N log N probabilitic guarantee fasted in practice
3-way	✓		n²/2	2 N ln N	N	improves quicksort in presence of
quick						dupicate keys
???	✓	✓	N lg N	N lg N	N lg N	holy grail sorting