## Sorting summary

	inplace?	stable?	worst	average	best	remarks
selection	V		N <sup>2</sup> / 2	N <sup>2</sup> / 2	N <sup>2</sup> /2	N exchanges
insertion	V	V	N <sup>2</sup> / 2	N <sup>2</sup> / 4	N	use for small N or partially ordered
shell	V		?	?	N	tight code, subquadratic
merge		V	N lg N	N lg N	N lg N	N log N guarantee, stable
quick	V		N <sup>2</sup> / 2	2 N In N	N lg N	N log N probabilistic guarantee fastest in practice
3-way quick	V		N <sup>2</sup> / 2	2 N In N	N	improves quicksort in presence of duplicate keys
???	V	V	N lg N	N lg N	N	holy sorting grail