List Implementations

	add(i,x) remove(x)	get(i) set(i,x)
ArrayStack	$\mathcal{O}\left(1+n-i\right)^A$	$\mathcal{O}\left(1\right)$
ArrayDeque^A	$\mathcal{O}\left(1+\min i, n-i\right)^A$	$\mathcal{O}\left(1\right)$
DualArrayDeque^A	$\mathcal{O}\left(1+\min i, n-i\right)^A$	$\mathcal{O}\left(1\right)$
RootishArrayStack	$\mathcal{O}\left(1+n-i\right)^A$	$\mathcal{O}\left(1\right)$
SLList	$\mathcal{O}\left(1+i\right)$	$\mathcal{O}\left(1+i\right)$
DLList	$\mathcal{O}\left(1+\min i, n-i\right)$	$\mathcal{O}\left(1+\min i, n-i\right)$
SEList	$\mathcal{O}\left(\frac{1+\min\{i,n-i\}}{b}\right)^A$	$\mathcal{O}\left(\frac{1+\min\{i,n-i\}}{b}\right)^A$
SkipList	$\mathcal{O}\left(\log\left(n\right)\right)^E$	$\mathcal{O}\left(\log\left(n\right)\right)^E$

Sorted Sets

	Anything
SkipList^r	$\mathcal{O}\left(\log\left(n\right)\right)$
Treap^r	$\mathcal{O}\left(\log\left(n\right)\right)$
ScapegoatTree	$\mathcal{O}\left(\log\left(n\right)\right)$
2-4 Tree	$\mathcal{O}\left(\log\left(n\right)\right)$
RB Tree	$\mathcal{O}\left(\log\left(n\right)\right)$

USet Implementations

	add(x) remove(i)	find(x)
ChainedHashTable	$\mathcal{O}\left(1\right)^{A,E}$	$\mathcal{O}\left(1\right)^E$
LinearHashTable	$\mathcal{O}\left(1\right)^{A,E}$	$\mathcal{O}\left(1\right)^E$

Priority Queue Implementations

		findMin	deleteMin()	merge()
BinaryHeap^A		$\mathcal{O}\left(1\right)$	$\mathcal{O}\left(\log\left(n\right)\right)$	N/A
MeldableHeap^R		$\mathcal{O}\left(1\right)$	$\mathcal{O}\left(\log\left(n\right)\right)$	$\mathcal{O}\left(\log\left(n\right)\right)$

Sorting Algorithms

	Time Complexity			Space Complexity
	Best	Average	Worst	Worst
Quicksort	$\Omega\left(n\log\left(n\right)\right)$	$\Theta\left(n\log(n)\right)$	$\mathcal{O}\left(n^2\right)$	$\mathcal{O}\left(\log\left(n\right)\right)$
Mergesort	$\Omega\left(n\log\left(n\right)\right)$	$\Theta\left(n\log(n)\right)$	$\mathcal{O}\left(n\log\left(n\right)\right)$	$\mathcal{O}\left(1\right)$
Heapsort	$\Omega\left(n\log\left(n\right)\right)$	$\Theta\left(n\log(n)\right)$	$\mathcal{O}\left(n\log\left(n\right)\right)$	$\mathcal{O}\left(1\right)$
Insertion Sort	$\Omega\left(n\right)$	$\Theta\left(n^2\right)$	$\mathcal{O}\left(n^2\right)$	$\mathcal{O}\left(1\right)$
Selection Sort	$\Omega(n^2)$	$\Theta\left(n^2\right)$	$\mathcal{O}\left(n^2\right)$	$\mathcal{O}\left(1\right)$
Radix Sort	$\Omega(nk)$	$\Theta(nk)$	$\mathcal{O}\left(nk\right)$	$\mathcal{O}\left(n+k\right)$

A denotes an amortized runtime $\qquad$ R denotes a randomized runtime $\qquad$ E denotes an expected runtime