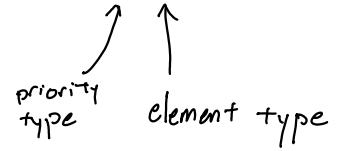


Priority Queue ADT

- * void insert(P priority, V value)
- * V remove()
- * V peek()
- * P peekPriority()

PriorityQueue < P, V >



Example: Airport Control

- * insert(0, "Plane 1") on-time
- * insert(0, "Plane 2")
- * insert(-2, "Plane 3") early
- * remove() Plane 1
- * insert(5, "Plane 4") late
- * remove() Plane 4
- * remove() Plane 2
- * remove() Plane 3

	unsorted LL	sorted LL	balanced BST*
insert	$O(1)$	$O(n)$	$O(\log n)$
remove	$O(n)$	$O(1)$	$O(\log n)$
peek	$O(n)$	$O(1)$	$O(\log n)$
peekPrio	$O(n)$	$O(1)$	$O(\log n)$