Priority C)ueues				
	Sell	100	IBM	\$122	
	Sell	300	IBM	\$120	
	Buy	500	IBM	\$119	
	Buy	400	IBM	\$118	
4/1/2003 8:51 AM	Priority Q	ueues			1







Comparat	or ADT	
A comparator two objects ac relation	encapsulates the action cording to a given total	n of comparing I order
 A generic prior template argu function (<,=) 	rity queue uses a compa ment, to define the con ,>)	arator as a nparison
The comparate compared. The in different was	or is external to the key nus, the same objects ca ays by using different co	rs being an be sorted omparators.
 When the priokeys, it uses if 	rity queue needs to con as comparator	npare two
4/1/2003 8:51 AM	Priority Queues	5









	Sertion-Sort
٠	Insertion-sort is the variation of PQ-sort where the priority queue is implemented with a sorted sequence
۲	Running time of Insertion-sort:
	 Inserting the elements into the priority queue with <i>n</i> insertItem operations takes time proportional to 1 + 2 + + <i>n</i>
	 Removing the elements in sorted order from the priority queue with a series of <i>n</i> removeMin operations takes <i>O</i>(<i>n</i>) time
۲	Insertion-sort runs in $O(n^2)$ time

