List VS DLL User Methods

List			DLL		
Method	Return	Explanation	Method	Return	Explanation
name	type		name	type	
findFirst()		void		C == head	
findNext()		void		C = C.next	
			<pre>findPrevious()</pre>	void	C =
					C.previous
<mark>retrieve()</mark>		Т		return C.data	
update(T e)		void		C.data = e	
full()		boolean		return false	
insert(Te)		void		Add node contain e	
				after C and make it the	
				С	
remove()		void		remove C element and	
				make the next of it C	
empty()		boolean		Is the list empty? True if	
				yes and false if not	
			first()	boolean	C.previous
					== null
<mark>last()</mark>		boolean		C.next == null	

[] Require list not full

[] Require list not empty

Queue (FIFO) VS Priority Queue User Methods

Queue			Priority Queue		
Method	Return	Explanation	Method	Return type	Explanation
name	type		name		
enqueue(T	void	Add e to	Enqueue(T	void	Add e to
<mark>e)</mark>		the queue	e, Priority		the queue
		in the end	<mark>p)</mark>		according
		(tail)			to p
serve()	Т	Remove the	serve()	PQElement <t></t>	e and p in
		head			head of PQ
		element			removed
		and its			and
		value			returned
		returned			
		also head =			
		head.next			
length()		int		return size of the queue	
full()		boolean		return false	

[] Require Queue / PQ not full

[] Require Queue / PQ not empty

Stacks (LIFO) User Methods

Method name	Return type	Explanation	
push(T e)	void	Add e to the stack	
pop()	Т	Remove the last one	
		added and return it also	
		top = top.next	
empty()	boolean	Stack is empty? True	
		Otherwise false	
full() boolean		Return false	

[] Require Stack not full

[] Require Stack not empty