Loop Tracing Table for *injectAtFront*

Name:	

To do:

Fill in the loop tracing table found on the next page for the operation *injectAtFront*

- 1. *injectAtFront*'s full implementation is found below
- 2. The incoming data specified in the tracing table will require 3 passes of the loop body
- 3. Reference instructional materials found in Week #6 of the CSSE373 Moodle site: 01 Introduction to Loop Invariants starting on slide #12

```
template <class T, class QueueOfT>
void InjectCapability1<T, QueueOfT>::inject(T& x)
//! updates self
//! clears x
//! ensures: self = <#x> * #self
   QueueOfT t;
   t.enqueue(x)
   while (self.length() > 0) {
      //! updates
      //! maintains _____
      //! decreases _____
      T y;
      self.dequeue(y);
      t.enqueue(y);
   } // end while
   self.transferFrom(t);
   // inject
```

Tracing Table	Original incoming values: self = <1,5,7> t = <47>		
<pre>while (self.length() > 0) {</pre>	I st pass column	2 nd pass column	3 rd pass column
State 0		t0:2 =	self0:3 = t0:3 = y0:3 =
self.dequeue(y);			
State 1	self1:1 = t1:1 = y1:1 =	t1:2 =	self1:3 = t1:3 = y1:3 =
t.enqueue(y);			
State 2	self2:1 = t2:1 = y2:1 =	t2:2 =	self2:3 = t2:3 = y2:3 =
} // end while			
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