

```
private static <T> void insertInOrder(Queue<T> q, T x, Comparator<T> order) {  
  
    boolean in = false;  
  
    int idx = 0;  
  
    while (idx < q.length() && !in) {  
  
        if (order.compare(q.front(), x) > 0) {  
  
            q.enqueue(x);  
  
            in = true;  
  
        }  
  
        idx++;  
  
        T temp = q.dequeue();  
  
        q.enqueue(temp);  
  
    }  
  
}
```

```
public void sort(Comparator<I> order) {  
  
    int n = order.length;  
  
    for (int j = 1; j < n; j++) {  
  
        int key = order[j];  
  
        int i = j-1;  
  
        while ((i > -1) && (order [i] > key)) {  
  
            order [i+1] = order [i];  
  
            i--;  
  
        }  
  
        order[i+1] = key;  
  
    }  
  
}
```

Statement	Variable Values
SortingMachine<Integer> sm = new SortingMachine1L<>(new IntegerGE());	
	sm = ()
sm.add(0);	
	sm = (0(), ())
sm.add(2);	
	sm = (0(), (2(), ()))
sm.add(-1);	
	sm = (0((-1(), ()), (2(), ()))
sm.changeToExtractionMode();	
	sm = (0((-1(), ()), (2(), ()))
int i = sm.removeFirst();	
	sm = (0(), (2(), ())) i = -1
sm.clear();	
	sm = () i = -1