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MergeSortWithQueueTest.java
package sort;
import java.util.ArrayList;
import java.util.List;
import java.util.Queue;
import java.util.concurrent.ConcurrentLinkedQueue;
import org. junit. Before;
import org. junit. Test;
import static org. junit. Assert. *;
/**
 *
 * @author tadaki
public class MergeSortWithQueueTest {
    private Queue List Integer>> inputQueue, expResult;
    private List<Integer> list1, list2, list3;
    /**
     * データの準備 (このメソッドが準備段階で実行される)
     * @throws Exception
     */
    @Before
    public void setUp() throws Exception {
        inputQueue = new ConcurrentLinkedQueue<>();
        int data1[] = \{1, 3, 5\};
        int data2[] = \{2, 4, 6\};
        list1 = new ArrayList<>();
        for (int k : data1) {
            list1. add(k);
        list2 = new ArrayList⟨>();
        for (int k : data2) {
            list2. add(k);
        inputQueue.add(list1);
        inputQueue.add(list2);
        int data3[] = \{1, 2, 3, 4, 5, 6\};
        list3 = new ArrayList<>();
        for (int k : data3) {
            list3. add(k);
        expResult = new ConcurrentLinkedQueue<>();
        expResult.add(list3);
```

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}
    /**
    * Test of mergeListWithQueue method. of class MergeSortWithQueue.
    * 待ち行列内に二つのリストが入っているものを整列統合し、待ち行列に戻す
    */
   @Test
   public void testMergeListWithQueue() {
       System out println("mergeListWithQueue");
       System. out. println("input queue :" + inputQueue);
       Queue < List < Integer >> result
               = MergeSortWithQueue.mergeListWithQueue(inputQueue);
       assertEquals(expResult.peek(), result.peek());
       System. out. println("result " + result. peek());
       System. out. println("expResult " + expResult. peek());
   }
    /**
    * Test of mergeList method, of class MergeSortWithQueue.
    * 二つのリストを整列統合する
    */
    @Test
   public void testMergeList() {
       System. out. println("mergeList");
       System. out. println("merge [" + list1 + "][" + list2 + "]");
       List result = MergeSortWithQueue.mergeList(list1, list2);
       System. out. println("result " + result);
       assertEquals(list3, result);
   }
}
```