public static <E> E Josephus(CircularQueue<E> queue, int k) {  
 if (queue.isEmpty( )) return null;  
 while (queue.size( ) > 1) {  
 for (int i=0; i < k-1;i++) // skip past k-1 elements  
 queue.rotate( );  
 E e = queue.dequeue( ); // remove the front element from the collection  
 System.out.println(" " + e + " is out");  
 }  
 return queue.dequeue( ); // the winner  
 }  
  
 public static <E> CircularQueue<E> buildQueue(E a[ ]) {  
 CircularQueue<E> queue = new CircularQueue<>( );  
 for (int i=0; i<a.length; i++)  
 queue.enqueue(a[i]);  
 return queue;  
 }  
  
  
  
 public static void main(String[ ] args) {  
 String[ ] a1 = {"Alice", "Bob", "Cindy", "Doug", "Ed", "Fred"};  
 String[ ] a2 = {"Gene", "Hope", "Irene", "Jack", "Kim", "Lance"};  
 String[ ] a3 = {"Mike", "Roberto"};  
 System.out.println("First winner is " + Josephus(buildQueue(a1), 3));  
 System.out.println("Second winner is " + Josephus(buildQueue(a2), 10));  
 System.out.println("Third winner is " + Josephus(buildQueue(a3), 7));  
 }  
}