

RANDOMIZER → GENERATE RANDOM POSITIVE INTEGERS  
CONSUME AND PRINT PRIMES

PRIME → CONSUME INTEGERS  
CALCULATE / PRODUCE PRIMES  
if PRIME function

RANDOMIZER

PRODUCE POSITIVE RANDOM INTEGERS  
INTS PRODUCER

CONSUME AND PRINT PRIMES  
PRIMES CONSUMER

INTS QUEUE < INT >

PRIMES QUEUE < POJ >

PRIME

CONSUME POSITIVE INTEGERS  
INTS CONSUMER

DETERMINE IF INTEGER IS PRIME AND ENQUEUE

PRIMES PRODUCER

NoInt Produced NoInt Enqueued  
BOMB if NEGATIVE  
ENQUEUE if POSITIVE  
PRODUCE SINGLE INT  
PRODUCE MULTIPLE INTS

NoInt Enqueued NoInt Consumed  
BOMB if NEGATIVE  
PRODUCE INT if POSITIVE  
CONSUME SINGLE INT  
CONSUME MULTIPLE INTS

NoPrime Enqueued NoPrime Consumed  
TALLY UP NonPrimes  
NonPrime Consumed & Ignored  
Prime Consumed if Displayed / Processed  
Consume Single Prime  
Consume Multiple Primes

NoPrime Produced NoPrime Enqueued  
Prime Int is Enqueued  
NonPrime Int is Enqueued  
PRODUCE SINGLE PRIME  
PRODUCE MULTIPLE PRIMES