process Sieve[1] {
    int p = 2;
    for [i = 3 to n by 2]
        Sieve[2]!i;  # pass odd numbers to Sieve[2]
}
process Sieve[i = 2 to L] {
    int p, next;
    Sieve[i-1]?p;  # p is a prime
    do Sieve[i-1]?next ->  # receive next candidate
        if (next mod p) != 0 ->  # if it might be prime,
            Sieve[i+1]!next;  # pass it on
    fi
    od
}

Figure 7.15  Sieve of Eratosthenes in CSP.

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