```
/* program producerconsumer */
int n;
binary semaphore s = 1, delay = 0;
void producer()
{
     while (true) {
          produce();
          semWaitB(s);
          append();
          n++;
          if (n==1) semSignalB(delay);
          semSignalB(s);
     }
void consumer()
     int m; /* a local variable */
     semWaitB(delay);
     while (true)
          semWaitB(s);
          take();
          n--;
          m = n;
          semSignalB(s);
          consume();
          if (m==0) semWaitB(delay);
     }
void main()
     n = 0;
     parbegin (producer, consumer);
}
```

Figure 5.13 A Correct Solution to the Infinite-Buffer Producer/Consumer Problem Using Binary Semaphores