```
string buffer;  # contains one line of input
bool done = false;  # used to signal termination
co  # process 1:  find patterns
  string line1;
  while (true) {
    wait for buffer to be full or done to be true;
    if (done) break;
    line1 = buffer;
    signal that buffer is empty;
    look for pattern in line1;
    if (pattern is in line1)
      write line1;
  }
//  # process 2:  read new lines
  string line2;
  while (true) {
    read next line of input into line2;
    if (EOF) {done = true; break; }
    wait for buffer to be empty;
    buffer = line2;
    signal that buffer is full;
  }
oc;
```

**Figure 2.1** Finding patterns in a file.