

<pre> <b>void</b> reader(int i) {     message rmsg;     <b>while</b> (true) {         rmsg = i;         send (readrequest, rmsg);         receive (mbox[i], rmsg);         READUNIT ();         rmsg = i;         send (finished, rmsg);     } }  <b>void</b> writer(int j) {     message rmsg;     <b>while</b>(true) {         rmsg = j;         send (writerequest, rmsg);         receive (mbox[j], rmsg);         WRITEUNIT ();         rmsg = j;         send (finished, rmsg);     } } </pre>	<pre> <b>void</b> controller() {     <b>while</b> (true)     {         <b>if</b> (count &gt; 0) {             <b>if</b> (!empty (finished)) {                 receive (finished, msg);                 count++;             }             <b>else if</b> (!empty (writerequest)) {                 receive (writerequest, msg);                 writer_id = msg.id;                 count = count - 100;             }             <b>else if</b> (!empty (readrequest)) {                 receive (readrequest, msg);                 count--;                 send (msg.id, "OK");             }         }         <b>if</b> (count == 0) {             send (writer_id, "OK");             receive (finished, msg);             count = 100;         }         <b>while</b> (count &lt; 0) {             receive (finished, msg);             count++;         }     } } </pre>
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Figure 5.27 A Solution to the Readers/Writers Problem Using Message Passing