1	monitor ProducerConsumer		
2	condition full, empty;	1	<pre>procedure producer;</pre>
3	integer count;	2	begin
4		3	while true do
5	<pre>procedure insert(item: integer);</pre>	4	begin
6	begin	5	<pre>item = produce_item;</pre>
7	<pre>if count = N then wait(full);</pre>	6	<pre>ProducerConsumer.insert(item)</pre>
8	<pre>insert_item(item);</pre>	7	end
9	<pre>count := count + 1;</pre>	8	end;
0	<pre>if count = 1 then signal(empty)</pre>	9	
1	end;	10	<pre>procedure consumer;</pre>
2		11	begin
.3	function remove: integer;	12	while true do
4	begin	13	begin
.5	<pre>if count = 0 then wait(empty);</pre>	14	<pre>item = ProducerConsumer.remove;</pre>
6	<pre>remove = remove_item;</pre>	15	consume_item(item)
7	<pre>count := count - 1;</pre>	16	end
.8	<pre>if count = N - 1 then signal(full)</pre>	17	end;
9	end;		
20	<pre>count := 0;</pre>		
1	end monitor:		