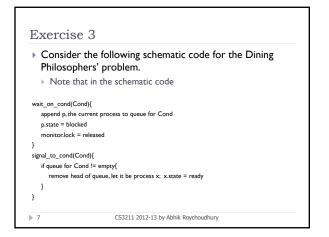


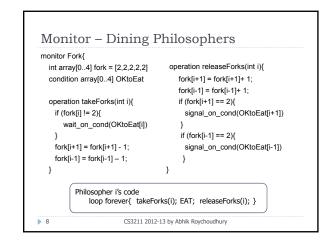
Answer

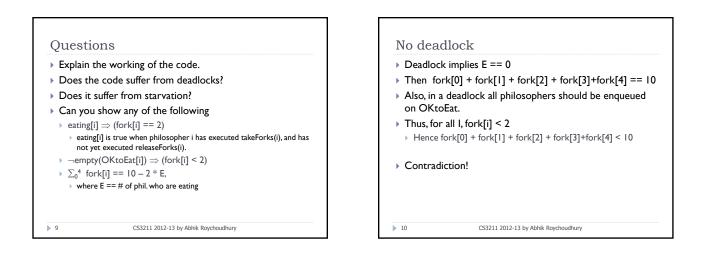
6

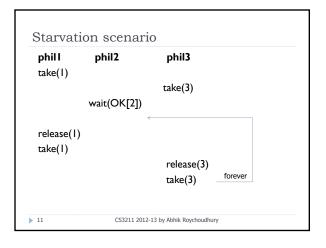
The program is safe, that is, it does not deadlock. Process 0 posts two blocking sends. Process 1 posts a nonblocking receive followed by a blocking receive. The first send of process 0 is guaranteed to complete. Thus process 0 can continue and post the second send. Meanwhile process 1 completes its blocking receive and the Wait call ensures that non blocking receive completes as well. Thus, the two processes progress to completion.

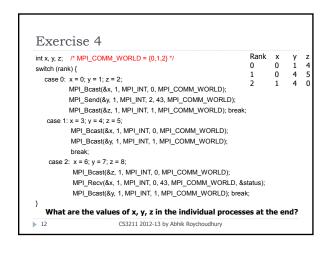
CS3211 2012-13 by Abhik Roychoudhury

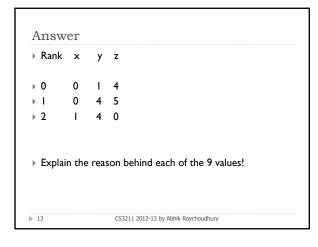


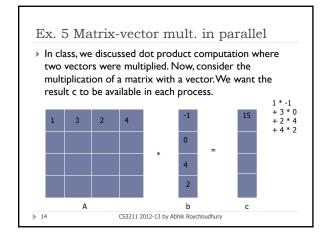


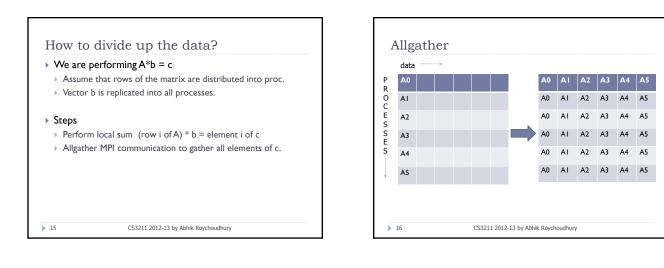


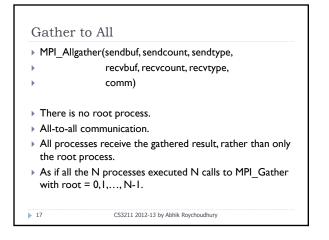


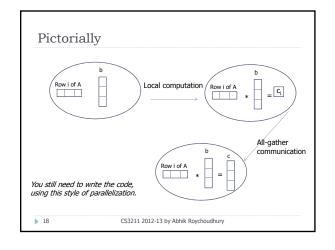


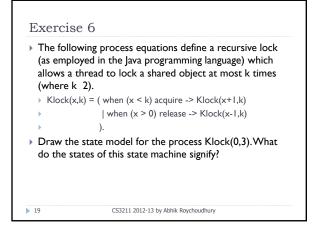


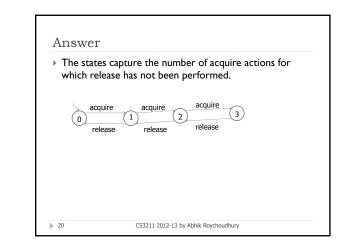












	<pre>ed method_in_which_Pl_waits() { le (!flag1) wait();</pre>
}	
	<pre>ed method_in_which_P2_waits() { while (!flag2) wait();</pre>
ı	
	<pre>ed method_which_tries_to_move_ahead() { acle says yes;</pre>
if (or	<pre>says_yes = // read in integer value acle_says_yes > 0) flag1 = true;</pre>
else f notify	lag2 = true; All();
}	

