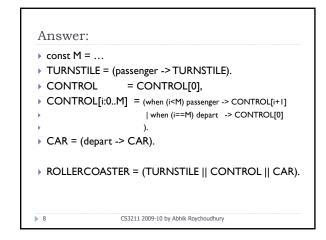
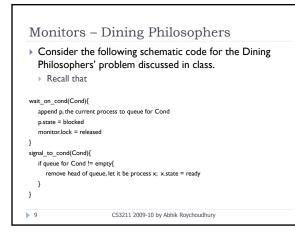
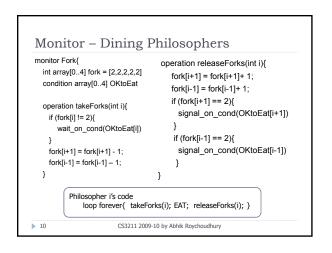


Concurrent Executions (from textbook) A roller coaster control system only permits its car to depart when it is full. Passengers arriving at the departure platform are registered with the roller-coaster controller by a turnstile. The controller signals the car to depart when there are enough passengers on the platform (to flil the car to its capacity of M). The car goes round the roller-coaster track and waits for another M passengers. A maximum of M passengers can occupy the platform. Model three processes TURNSTILE, CONTROL, CAR. TURNSTILE and CONTROL interact via the arrival of a passenger. CONTROL and CAR interact via the departure of a car.



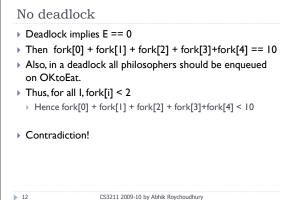


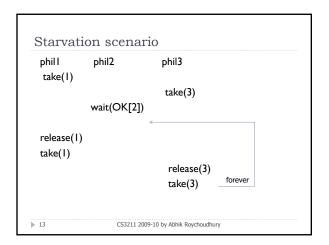


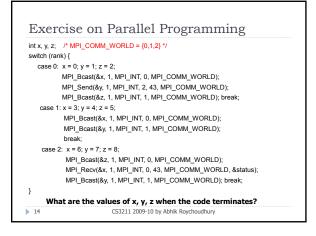
Questions Explain the working of the code. Does the code suffer from deadlocks? Does it suffer from starvation? Can you show any of the following eating[i] ⇒ (fork[i] == 2) eating[i] is true when philosopher i has executed takeForks(i), and has not yet executed releaseForks(i). ¬empty(OKtoEat[i]) ⇒ (fork[i] < 2) ∑₀⁴ fork[i] == 10 - 2 * E, where E == # of phil.who are eating

CS3211 2009-10 by Abhik Roychoudhury

▶ 11







Rank	х	У	Z
	0		
2	Т	4	0
• 0	0	I.	4
			son behind each of the 9 values!

