



















Deadlock in Pintos			
 How would you implement a deadlock detection algorithm for Pintos? Could about that all threads are blocked, and page is blocked and 			
console or disk			
 If that happens, provide diagnostics; dump backtraces of all threads Problem 1: can only get backtrace of currently running thread Problem 2: must implement a version of debug backtrace() based entirely on serial_putc() (printf requires ability to take console lock, so won't always work) Set flag "exit_all_threads" Unblock all threads tare blocked 			
 In schedule_tail, check "exit_all_threads" flag and dump backtrace if so, then thread_exit() Last thread is idle_thread, which calls PANIC() Can be done in < 100lines of code. Alternatively, use gdb macros I posted on forum & website 			
Virginia II Tech	CS 3204 Spring 2006	2/22/2006	13