Lab9

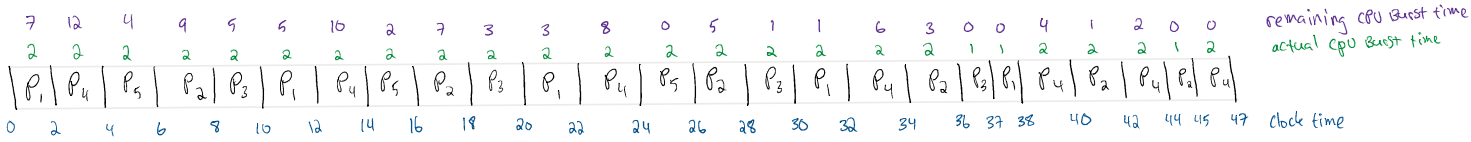
Monday, April 21, 2025 11:47 PM

Part A

SRTF

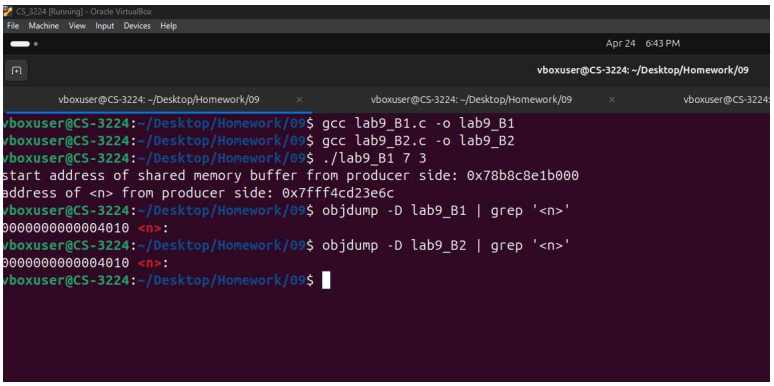
Proccess	turnaround time	waiting time
P_1	22 - 0 = 22	22 - 9 = 13
P_2	33 - 2 = 31	31 - 11 = 20
P_3	14 - 2 = 12	12 - 7 = 5
P_4	49 - 1 = 48	48 - 16 = 32
P_5	7 - 1 = 6	6 - 6 = 0

Round Robin



Proccess	turnaround time	waiting time
P_1	38 - 0 = 38	38 - 9 = 29
P_2	45 - 2 = 43	43 - 11 = 32
P_3	37 - 2 = 35	35 - 7 = 28
P_4	47 - 1 = 46	46 - 16 = 30
P_5	26 - 1 = 25	25 - 6 = 19

Part B



1. In both processes, print the start address of the shared buffer
2. Was the address printed Logical (virtual) or physical address?
   The printed addresses are virtual

3. Print the address of n from your running program and also,
4. Find out where it's stored in the .elf file (executable).
5. Did the addresses match (printed from the nmning program vs the one in the program's elf file)? Why?
   No, the address of n printed in the programs does not match the address in the program's elf file
   This is because an elf file is still a relocatable file object and the final addresses were not yet rebound as this happens right before the program is loaded into memory

6. What is the virtual address of the entry point in your producer and consumer programs? (note that in most programs, some initialization is first invoked before calling "main()").
   Producer: 0x00000000000013a7
   Consumer: 0x00000000000012b0