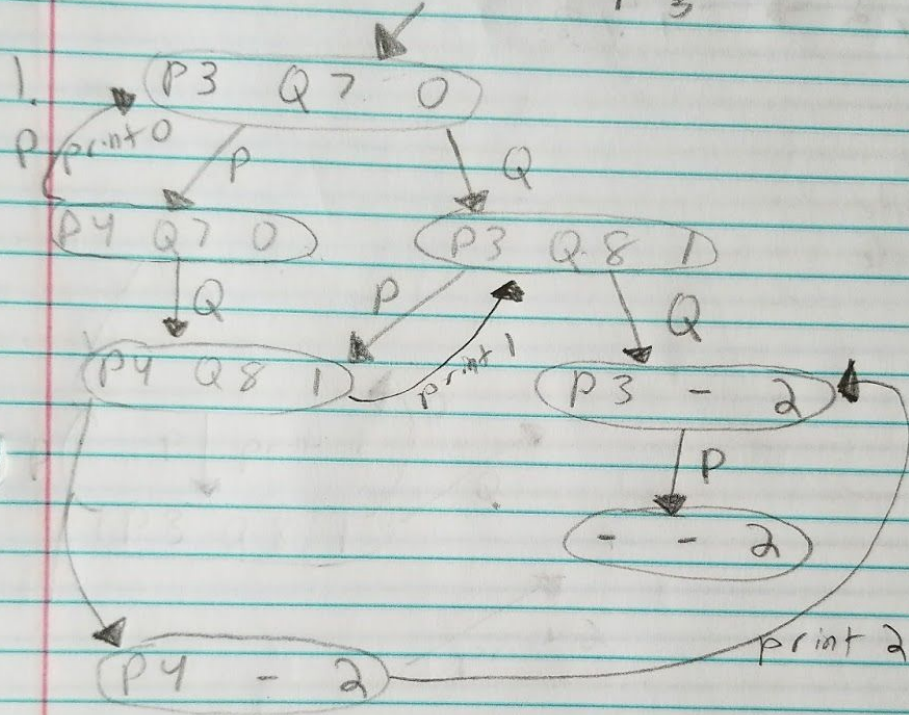


# HW 1

1 global int n=0;  
 2 thread P: {  
 3 while (n < 2)  
 4 print(n);  
 5 }

6 thread Q: {  
 7 n = n+1  
 8 n = n+1  
 9 }



2. P3, Q7, 0 → P4, Q7, 0 → P3, Q7, 0 → P3, Q8, 1

012 P4, -, 2 ← P4, Q8, 1 ← P3, Q8, 1 ← P4, Q8, 1  
 P3, -, 2 → -, -, 2

002 P3, Q7, 0 → P4, Q7, 0 → P3, Q7, 0 → P4, Q7, 0  
 P4, -, 2 ← P4, Q8, 1 ← P3, Q8, 1 ← P3, Q7, 0  
 P3, -, 2 → -, -, 2

$P_3, Q_7, 0 \rightarrow P_4, Q_7, 0 \rightarrow P_3, Q_7, 0$   
 $\uparrow$  print  
 $\leftarrow P_4, Q_8, 1 \leftarrow P_3, Q_8, 1$   
 $\uparrow$  print  
 $P_3, -1, 2 \rightarrow -1, -1, 2$

- 3. No
- 4. Once
- 5. infinite
- 6. infinite
- 7. 0