

● rayyanbalami@Rayyans-MacBook-Air OS % cd "/Users/rayyanbalami/Documents/Ra  
Users/rayyanbalami/Documents/RayyanCodes/OS/"diningPhilosopher

\*\*\* Dining Philosopher Problem \*\*\*

Enter the total no. of philosophers: 5

How many are hungry: 4

Enter philosopher 1 position: 1

Enter philosopher 2 position: 2

Enter philosopher 3 position: 3

Enter philosopher 4 position: 4

1. One can eat at a time

2. Two can eat at a time

3. Exit

Enter your choice: 1

Allow one philosopher to eat any time

P2 is granted to eat

P2 is waiting

P3 is waiting

P4 is waiting

P5 is waiting

P3 is granted to eat

P3 is waiting

P4 is waiting

P5 is waiting

P4 is granted to eat

P4 is waiting

P5 is waiting

P5 is granted to eat

P5 is waiting

1. One can eat at a time

2. Two can eat at a time

3. Exit

Enter your choice: 2

Allow two philosophers to eat at the same time

Combination 1

P2 and P3 are granted to eat

P4 is waiting

P5 is waiting

Combination 2

P2 and P4 are granted to eat

P3 is waiting

P5 is waiting

Combination 3

P2 and P5 are granted to eat

P3 is waiting

P4 is waiting

Combination 4

P3 and P4 are granted to eat

P2 is waiting

P5 is waiting

Combination 5

P3 and P5 are granted to eat

P2 is waiting

P4 is waiting

Combination 6

P4 and P5 are granted to eat

P2 is waiting

P3 is waiting

1. One can eat at a time

2. Two can eat at a time

3. Exit

Enter your choice: 3

○ rayyanbalami@Rayyans-MacBook-Air OS %

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● rayyanbalami@Rayyans-MacBook-Air OS % cd "/Users/rayyanbalami/Documents/RayyanCode
Documents/RayyanCodes/OS/"priority
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\*\*\* Priority Scheduling \*\*\*

Enter the number of processes = 5

Enter Burst Time and Priority

Process 0 :

Burst Time = 8

Priority = 4

Process 1 :

Burst Time = 6

Priority = 2

Process 2 :

Burst Time = 2

Priority = 1

Process 3 :

Burst Time = 3

Priority = 3

Process 4 :

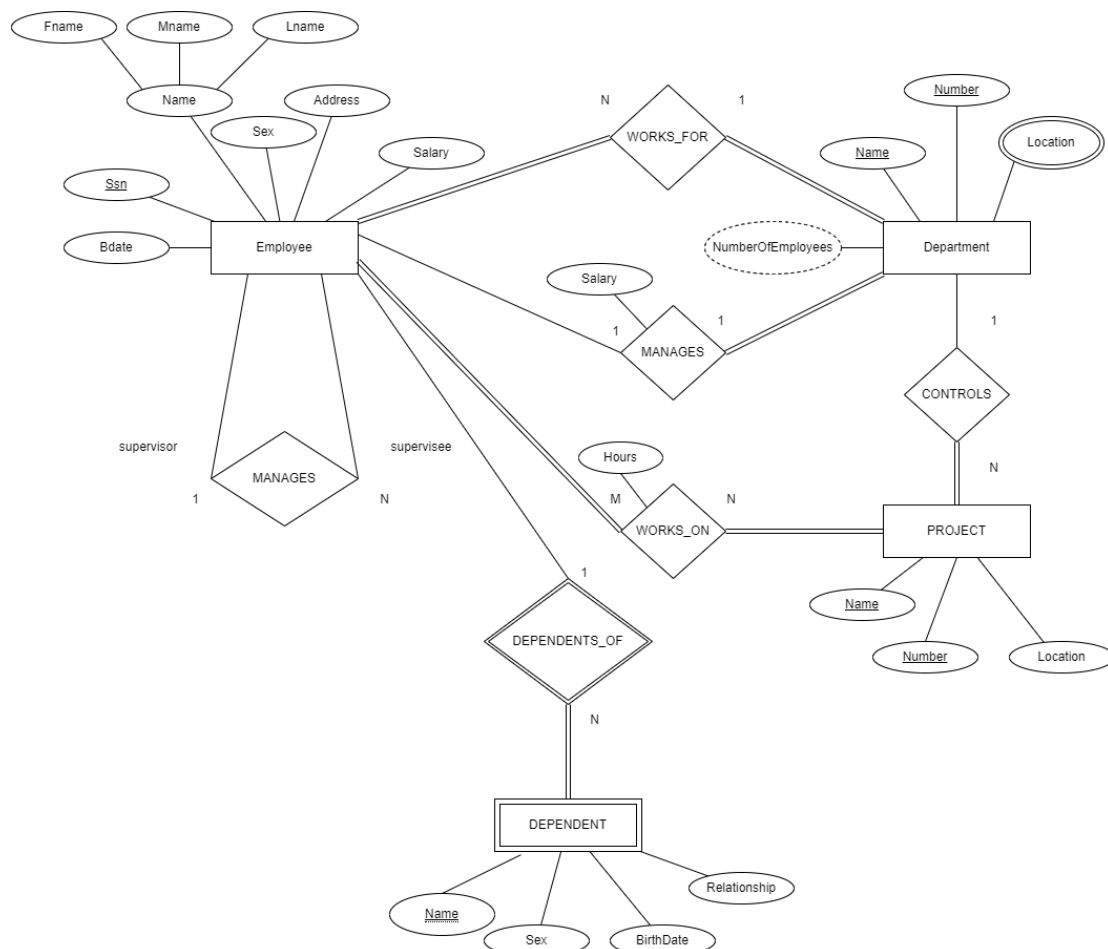
Burst Time = 9

Priority = 5

PROCESS	PRIORITY	BURST TIME	WAITING TIME	TURNAROUND TIME
P2	1	2	0	2
P1	2	6	2	8
P3	3	3	8	11
P0	4	8	11	19
P4	5	9	19	28

Average Waiting Time = 8.000000

Average Turnaround Time = 13.600000



PROBLEMS

OUTPUT

DEBUG CONSOLE

TERMINAL

PORTS

- rayyanbalami@Rayyans-MacBook-Air OS % cd "/Users/rayyanbalami/Documents/Document/Docs/roundRobbin"   
  
\*\*\* Round Robbin Scheduling \*\*\*   
  
Enter the number of processes = 5   
  
Enter Burst Time   
Process 0 = 5   
Process 1 = 2   
Process 2 = 4   
Process 3 = 3   
Process 4 = 7   
  
Enter the size of time slice = 2   
  

PROCESS	BURST TIME	WAITING TIME	TURNAROUND TIME
0	5	13	18
1	2	2	4
2	4	10	14
3	3	12	15
4	7	14	21

  
Average Waiting time = 10.200000   
Average Turnaround time = 14.400000

PROBLEMS

OUTPUT

DEBUG CONSOLE

TERMINAL

PORTS

- rayyanbalami@Rayyans-MacBook-Air OS % cd "/Users/rayyanbalami/Documents/Document/Docs/producerConsumer"   
  
\*\*\* Producer Consumer Problem \*\*\*   
  
1. Produce      2. Consume      3. Exit   
Enter your choice => 1   
Enter the value to produce: 25   
Produced: 25   
  
1. Produce      2. Consume      3. Exit   
Enter your choice => 2   
Consumed: 25   
  
1. Produce      2. Consume      3. Exit   
Enter your choice => 2   
Buffer is Empty   
  
1. Produce      2. Consume      3. Exit   
Enter your choice => 3   
Exiting the program

PROBLEMS

OUTPUT

DEBUG CONSOLE

TERMINAL

PORTS

- rayyanbalami@Rayyans-MacBook-Air OS % cd "/Users/rayyanbalami/Documents/Document/Docs/roundRobbin"   
  
\*\*\* First Come First Serve Scheduling \*\*\*   
  
Enter the number of processes = 5   
  
Enter Burst Time   
Process 0 = 5   
Process 1 = 8   
Process 2 = 6   
Process 3 = 2   
Process 4 = 10   
  

PROCESS	BURST TIME	WAITING TIME	TURNAROUND TIME
P0	5	0	5
P1	8	5	13
P2	6	13	19
P3	2	19	21
P4	10	21	31

  
Average Waiting Time = 11.600000   
Average Turnaround Time = 17.799999

PROBLEMS

OUTPUT

DEBUG CONSOLE

TERMINAL

PORTS

- rayyanbalami@Rayyans-MacBook-Air OS % cd "/Users/rayyanbalami/Documents/Document/Docs/producerConsumer"   
  
\*\*\* Shortest Job First Scheduling \*\*\*   
  
Enter the number of processes = 5   
  
Enter Burst Time   
Process 0 = 10   
Process 1 = 5   
Process 2 = 3   
Process 3 = 15   
Process 4 = 20   
  

PROCESS	BURST TIME	WAITING TIME	TURNAROUND TIME
P2	3	0	3
P1	5	3	8
P0	10	8	18
P3	15	18	33
P4	20	33	53

  
Average Waiting Time = 12.400000   
Average Turnaround Time = 23.000000