C:\Users\HP\Desktop\OS-Project>a.exe Enter Memory Size: 2000 Enter the number of processes: 7 Enter process details as stated: Process ID: 1 Process Arrival Time: 0 Process Lifetime: 200 No of segments of Process: 2 Enter size of segments separated by space: 200 300 Process ID: 2 Process Arrival Time: 0 Process Lifetime: 500 No of segments of Process: 1 Enter size of segments separated by space: 500 Process ID: 3 Process Arrival Time: 0 Process Lifetime: 700 No of segments of Process: 2 Enter size of segments separated by space: 100 100 Process ID: 4 Process Arrival Time: 0 Process Lifetime: 1000 No of segments of Process: 3 Enter size of segments separated by space: 100 400 100 Process ID: 5 Process Arrival Time: 500 Process Lifetime: 600 No of segments of Process: 2 Enter size of segments separated by space: 500 100 Process ID: 6 Process Arrival Time: 600 Process Lifetime: 600 No of segments of Process: 2 Enter size of segments separated by space: 500 100 Process ID: 7 Process Arrival Time: 700 Process Lifetime: 600 No of segments of Process: 1 Enter size of segments separated by space: 200

Press 1 for first fit or 2 for best fit or 3 for worst fit or any other number key for exiting: 3 ---------------QUEUE STATUS----------- At time t = 0, these are the processes present in Queue: Process: 1 Arrival Time: 0 ---------------QUEUE STATUS----------- At time t = 0, these are the processes present in Queue: Process: 1 Arrival Time: 0 Process: 2 Arrival Time: 0 ---------------QUEUE STATUS----------- At time t = 0, these are the processes present in Queue: Process: 1 Arrival Time: 0 Process: 2 Arrival Time: 0 Process: 3 Arrival Time: 0 ---------------QUEUE STATUS----------- At time t = 0, these are the processes present in Queue: Process: 1 Arrival Time: 0 Process: 2 Arrival Time: 0 Process: 3 Arrival Time: 0 Process: 4 Arrival Time: 0 Process: 1 added at time t = 0 ----------------MEMORY STATUS---------------- at time t = 0 Process :- 1 Segment :- 0 Size :-200 Location :- 0 - 199 Process :- 1 Segment :- 1 Size :-300 Location :- 200 - 499 Hole Present :- Size :- 1500 Location :- 500 - 1999 Process: 2 added at time t = 0 ----------------MEMORY STATUS---------------- at time t = 0 Process :- 1 Segment :- 0 Size :-200 Location :- 0 - 199 Process :- 1 Segment :- 1 Size :-300 Location :- 200 - 499 Process :- 2 Segment :- 0 Size :-500 Location :- 500 - 999 Hole Present :- Size :- 1000 Location :- 1000 - 1999 Process: 3 added at time t = 0 ----------------MEMORY STATUS---------------- at time t = 0 Process :- 1 Segment :- 0 Size :-200 Location :- 0 - 199 Process :- 1 Segment :- 1 Size :-300 Location :- 200 - 499 Process :- 2 Segment :- 0 Size :-500 Location :- 500 - 999 Process :- 3 Segment :- 0 Size :-100 Location :- 1000 - 1099 Process :- 3 Segment :- 1 Size :-100 Location :- 1100 - 1199 Hole Present :- Size :- 800 Location :- 1200 - 1999 Process: 4 added at time t = 0 ----------------MEMORY STATUS---------------- at time t = 0 Process :- 1 Segment :- 0 Size :-200 Location :- 0 - 199 Process :- 1 Segment :- 1 Size :-300 Location :- 200 - 499 Process :- 2 Segment :- 0 Size :-500 Location :- 500 - 999 Process :- 3 Segment :- 0 Size :-100 Location :- 1000 - 1099 Process :- 3 Segment :- 1 Size :-100 Location :- 1100 - 1199 Process :- 4 Segment :- 0 Size :-100 Location :- 1200 - 1299 Process :- 4 Segment :- 1 Size :-100 Location :- 1300 - 1399 Process :- 4 Segment :- 2 Size :-400 Location :- 1400 - 1799 Hole Present :- Size :- 200 Location :- 1800 - 1999 Process: 1 is completed and removed at time t = 200 ----------------MEMORY STATUS---------------- at time t = 200 Hole Present :- Size :- 200 Location :- 0 - 199 Hole Present :- Size :- 300 Location :- 200 - 499 Process :- 2 Segment :- 0 Size :-500 Location :- 500 - 999 Process :- 3 Segment :- 0 Size :-100 Location :- 1000 - 1099 Process :- 3 Segment :- 1 Size :-100 Location :- 1100 - 1199 Process :- 4 Segment :- 0 Size :-100 Location :- 1200 - 1299 Process :- 4 Segment :- 1 Size :-100 Location :- 1300 - 1399 Process :- 4 Segment :- 2 Size :-400 Location :- 1400 - 1799 Hole Present :- Size :- 200 Location :- 1800 - 1999 ---------------QUEUE STATUS----------- At time t = 500, these are the processes present in Queue: Process: 5 Arrival Time: 500 Process: 2 is completed and removed at time t = 500 ----------------MEMORY STATUS---------------- at time t = 500 Hole Present :- Size :- 500 Location :- 0 - 499 Hole Present :- Size :- 500 Location :- 500 - 999 Process :- 3 Segment :- 0 Size :-100 Location :- 1000 - 1099 Process :- 3 Segment :- 1 Size :-100 Location :- 1100 - 1199 Process :- 4 Segment :- 0 Size :-100 Location :- 1200 - 1299 Process :- 4 Segment :- 1 Size :-100 Location :- 1300 - 1399 Process :- 4 Segment :- 2 Size :-400 Location :- 1400 - 1799 Hole Present :- Size :- 200 Location :- 1800 - 1999 Process: 5 added at time t = 500 ----------------MEMORY STATUS---------------- at time t = 500 Process :- 5 Segment :- 1 Size :-500 Location :- 0 - 499 Hole Present :- Size :- 500 Location :- 500 - 999 Process :- 3 Segment :- 0 Size :-100 Location :- 1000 - 1099 Process :- 3 Segment :- 1 Size :-100 Location :- 1100 - 1199 Process :- 4 Segment :- 0 Size :-100 Location :- 1200 - 1299 Process :- 4 Segment :- 1 Size :-100 Location :- 1300 - 1399 Process :- 4 Segment :- 2 Size :-400 Location :- 1400 - 1799 Process :- 5 Segment :- 0 Size :-100 Location :- 1800 - 1899 Hole Present :- Size :- 100 Location :- 1900 - 1999 ---------------QUEUE STATUS----------- At time t = 600, these are the processes present in Queue: Process: 6 Arrival Time: 600 ---------------QUEUE STATUS----------- At time t = 700, these are the processes present in Queue: Process: 6 Arrival Time: 600 Process: 7 Arrival Time: 700 Process: 3 is completed and removed at time t = 700 ----------------MEMORY STATUS---------------- at time t = 700 Process :- 5 Segment :- 1 Size :-500 Location :- 0 - 499 Hole Present :- Size :- 500 Location :- 500 - 999 Hole Present :- Size :- 100 Location :- 1000 - 1099 Hole Present :- Size :- 100 Location :- 1100 - 1199 Process :- 4 Segment :- 0 Size :-100 Location :- 1200 - 1299 Process :- 4 Segment :- 1 Size :-100 Location :- 1300 - 1399 Process :- 4 Segment :- 2 Size :-400 Location :- 1400 - 1799 Process :- 5 Segment :- 0 Size :-100 Location :- 1800 - 1899 Hole Present :- Size :- 100 Location :- 1900 - 1999 Process: 6 added at time t = 700 ----------------MEMORY STATUS---------------- at time t = 700 Process :- 5 Segment :- 1 Size :-500 Location :- 0 - 499 Process :- 6 Segment :- 1 Size :-500 Location :- 500 - 999 Hole Present :- Size :- 200 Location :- 1000 - 1199 Process :- 4 Segment :- 0 Size :-100 Location :- 1200 - 1299 Process :- 4 Segment :- 1 Size :-100 Location :- 1300 - 1399 Process :- 4 Segment :- 2 Size :-400 Location :- 1400 - 1799 Process :- 5 Segment :- 0 Size :-100 Location :- 1800 - 1899 Process :- 6 Segment :- 0 Size :-100 Location :- 1900 - 1999 Process: 7 added at time t = 700 ----------------MEMORY STATUS---------------- at time t = 700 Process :- 5 Segment :- 1 Size :-500 Location :- 0 - 499 Process :- 6 Segment :- 1 Size :-500 Location :- 500 - 999 Process :- 7 Segment :- 0 Size :-200 Location :- 1000 - 1199 Process :- 4 Segment :- 0 Size :-100 Location :- 1200 - 1299 Process :- 4 Segment :- 1 Size :-100 Location :- 1300 - 1399 Process :- 4 Segment :- 2 Size :-400 Location :- 1400 - 1799 Process :- 5 Segment :- 0 Size :-100 Location :- 1800 - 1899 Process :- 6 Segment :- 0 Size :-100 Location :- 1900 - 1999 Process: 4 is completed and removed at time t = 1000 ----------------MEMORY STATUS---------------- at time t = 1000 Process :- 5 Segment :- 1 Size :-500 Location :- 0 - 499 Process :- 6 Segment :- 1 Size :-500 Location :- 500 - 999 Process :- 7 Segment :- 0 Size :-200 Location :- 1000 - 1199 Hole Present :- Size :- 100 Location :- 1200 - 1299 Hole Present :- Size :- 100 Location :- 1300 - 1399 Hole Present :- Size :- 400 Location :- 1400 - 1799 Process :- 5 Segment :- 0 Size :-100 Location :- 1800 - 1899 Process :- 6 Segment :- 0 Size :-100 Location :- 1900 - 1999 Process: 5 is completed and removed at time t = 1100 ----------------MEMORY STATUS---------------- at time t = 1100 Hole Present :- Size :- 500 Location :- 0 - 499 Process :- 6 Segment :- 1 Size :-500 Location :- 500 - 999 Process :- 7 Segment :- 0 Size :-200 Location :- 1000 - 1199 Hole Present :- Size :- 600 Location :- 1200 - 1799 Hole Present :- Size :- 100 Location :- 1800 - 1899 Process :- 6 Segment :- 0 Size :-100 Location :- 1900 - 1999 Process: 6 is completed and removed at time t = 1300 ----------------MEMORY STATUS---------------- at time t = 1300 Hole Present :- Size :- 500 Location :- 0 - 499 Hole Present :- Size :- 500 Location :- 500 - 999 Process :- 7 Segment :- 0 Size :-200 Location :- 1000 - 1199 Hole Present :- Size :- 700 Location :- 1200 - 1899 Hole Present :- Size :- 100 Location :- 1900 - 1999 Process: 7 is completed and removed at time t = 1300 ----------------MEMORY STATUS---------------- at time t = 1300 Hole Present :- Size :- 500 Location :- 0 - 499 Hole Present :- Size :- 500 Location :- 500 - 999 Hole Present :- Size :- 200 Location :- 1000 - 1199 Hole Present :- Size :- 700 Location :- 1200 - 1899 Hole Present :- Size :- 100 Location :- 1900 - 1999 Average turnaround time is: 614.286