C:\Users\HP\Desktop\OS-Project>g++ final.cpp

C:\Users\HP\Desktop\OS-Project>a.exe

Enter Memory Size: 2000

Enter the number of processes: 9 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: 200 200

Process ID: 2

Process Arrival Time: 0 Process Lifetime: 2000

No of segments of Process: 1

Enter size of segments separated by space: 200

Process ID: 3

Process Arrival Time: 0 Process Lifetime: 200

No of segments of Process: 2

Enter size of segments separated by space: 200 100

Process ID: 4

Process Arrival Time: 0
Process Lifetime: 2000

No of segments of Process: 1

Enter size of segments separated by space: 100

Process ID: 5

Process Arrival Time: 0 Process Lifetime: 200

No of segments of Process: 3

Enter size of segments separated by space: 200 200 100

Process ID: 6

Process Arrival Time: 0
Process Lifetime: 2000
No of segments of Process: 1

Enter size of segments separated by space: 400

Process ID: 7

Process Arrival Time: 500 Process Lifetime: 1500

No of segments of Process: 2

Enter size of segments separated by space: 300 500

Process ID: 8

Process Arrival Time: 600

No of segments of Process: 3 Enter size of segments separated by space: 200 200 200 Process ID: 9 Process Arrival Time: 700 Process Lifetime: 1500 No of segments of Process: 2 Enter size of segments separated by space: 200 200 Press 1 for first fit or 2 for best fit or 3 for worst fit or any other number key for exiting: 1 -----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 -----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: 5 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: 5 Arrival Time: 0

Process Lifetime: 1500

Process: 6 Arrival Time: 0

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Process: 1 added at time t = 0
----- at time t = 0
Process :- 1 Segment :- 0 Size :-200 Location :- 0 - 199
Process: - 1 Segment: - 1 Size: -200 Location: - 200 - 399
Hole Present :- Size :- 1600 Location :- 400 - 1999
Process: 2 added at time t = 0
----- at time t = 0
Process :- 1 Segment :- 0 Size :-200 Location :- 0 - 199
Process: - 1 Segment: - 1 Size: -200 Location: - 200 - 399
Process: - 2 Segment: - 0 Size: -200 Location: - 400 - 599
Hole Present :- Size :- 1400 Location :- 600 - 1999
Process: 3 added at time t = 0
----- at time t = 0
Process: - 1 Segment: - 0 Size: -200 Location: - 0 - 199
Process: - 1 Segment: - 1 Size: -200 Location: - 200 - 399
Process: - 2 Segment: - 0 Size: -200 Location: - 400 - 599
Process: - 3 Segment: - 0 Size: -200 Location: - 600 - 799
Process: - 3 Segment: - 1 Size: -100 Location: - 800 - 899
Hole Present :- Size :- 1100 Location :- 900 - 1999
Process: 4 added at time t = 0
----- at time t = 0
Process :- 1 Segment :- 0 Size :-200 Location :- 0 - 199
Process: - 1 Segment: - 1 Size: -200 Location: - 200 - 399
Process: - 2 Segment: - 0 Size: -200 Location: - 400 - 599
Process: - 3 Segment: - 0 Size: -200 Location: - 600 - 799
Process: - 3 Segment: - 1 Size: -100 Location: - 800 - 899
Process: - 4 Segment: - 0 Size: -100 Location: - 900 - 999
Hole Present :- Size :- 1000 Location :- 1000 - 1999
Process: 5 added at time t = 0
----- at time t = 0
Process: - 1 Segment: - 0 Size: -200 Location: - 0 - 199
Process: - 1 Segment: - 1 Size: -200 Location: - 200 - 399
Process: - 2 Segment: - 0 Size: -200 Location: - 400 - 599
Process: - 3 Segment: - 0 Size: -200 Location: - 600 - 799
Process: - 3 Segment: - 1 Size: -100 Location: - 800 - 899
Process: - 4 Segment: - 0 Size: -100 Location: - 900 - 999
Process :- 5 Segment :- 0 Size :-200 Location :- 1000 - 1199
Process :- 5 Segment :- 1 Size :-200 Location :- 1200 - 1399
Process: - 5 Segment: - 2 Size: -100 Location: - 1400 - 1499
Hole Present :- Size :- 500 Location :- 1500 - 1999
Process: 6 added at time t = 0
----- at time t = 0
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Process :- 1 Segment :- 0 Size :-200 Location :- 0 - 199
Process: - 1 Segment: - 1 Size: -200 Location: - 200 - 399
Process :- 2 Segment :- 0 Size :-200 Location :- 400 - 599
Process: - 3 Segment: - 0 Size: -200 Location: - 600 - 799
Process: - 3 Segment: - 1 Size: -100 Location: - 800 - 899
Process: - 4 Segment: - 0 Size: -100 Location: - 900 - 999
Process: - 5 Segment: - 0 Size: -200 Location: - 1000 - 1199
Process: - 5 Segment: - 1 Size: -200 Location: - 1200 - 1399
Process: - 5 Segment: - 2 Size: -100 Location: - 1400 - 1499
Process: - 6 Segment: - 0 Size: -400 Location: - 1500 - 1899
Hole Present :- Size :- 100 Location :- 1900 - 1999
Process: 1 is completed and removed at time t = 200
----- at time t = 200
Hole Present :- Size :- 200 Location :- 0 - 199
Hole Present :- Size :- 200 Location :- 200 - 399
Process: - 2 Segment: - 0 Size: -200 Location: - 400 - 599
Process: - 3 Segment: - 0 Size: -200 Location: - 600 - 799
Process: - 3 Segment: - 1 Size: -100 Location: - 800 - 899
Process: - 4 Segment: - 0 Size: -100 Location: - 900 - 999
Process :- 5 Segment :- 0 Size :-200 Location :- 1000 - 1199
Process: - 5 Segment: - 1 Size: -200 Location: - 1200 - 1399
Process: - 5 Segment: - 2 Size: -100 Location: - 1400 - 1499
Process: - 6 Segment: - 0 Size: -400 Location: - 1500 - 1899
Hole Present :- Size :- 100 Location :- 1900 - 1999
Process: 3 is completed and removed at time t = 200
----- at time t = 200
Hole Present :- Size :- 200 Location :- 0 - 199
Hole Present :- Size :- 200 Location :- 200 - 399
Process: - 2 Segment: - 0 Size: -200 Location: - 400 - 599
Hole Present :- Size :- 200 Location :- 600 - 799
Hole Present :- Size :- 100 Location :- 800 - 899
Process: - 4 Segment: - 0 Size: -100 Location: - 900 - 999
Process :- 5 Segment :- 0 Size :-200 Location :- 1000 - 1199
Process: - 5 Segment: - 1 Size: -200 Location: - 1200 - 1399
Process: - 5 Segment: - 2 Size: -100 Location: - 1400 - 1499
Process: - 6 Segment: - 0 Size: -400 Location: - 1500 - 1899
Hole Present :- Size :- 100 Location :- 1900 - 1999
Process: 5 is completed and removed at time t = 200
----- at time t = 200
Hole Present :- Size :- 200 Location :- 0 - 199
Hole Present :- Size :- 200 Location :- 200 - 399
Process: - 2 Segment: - 0 Size: -200 Location: - 400 - 599
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Hole Present :- Size :- 200 Location :- 600 - 799
Hole Present :- Size :- 100 Location :- 800 - 899
Process: - 4 Segment: - 0 Size: -100 Location: - 900 - 999
Hole Present :- Size :- 200 Location :- 1000 - 1199
Hole Present :- Size :- 200 Location :- 1200 - 1399
Hole Present :- Size :- 100 Location :- 1400 - 1499
Process: - 6 Segment: - 0 Size: -400 Location: - 1500 - 1899
Hole Present :- Size :- 100 Location :- 1900 - 1999
-----QUEUE STATUS-----
At time t = 500, these are the processes present in Queue:
Process: 7 Arrival Time: 500
Process: 7 added at time t = 500
----- at time t = 500
Process: - 7 Segment: - 0 Size: -300 Location: - 0 - 299
Hole Present :- Size :- 100 Location :- 300 - 399
Process: - 2 Segment: - 0 Size: -200 Location: - 400 - 599
Hole Present :- Size :- 300 Location :- 600 - 899
Process: - 4 Segment: - 0 Size: -100 Location: - 900 - 999
Process: - 7 Segment: - 1 Size: -500 Location: - 1000 - 1499
Process: - 6 Segment: - 0 Size: -400 Location: - 1500 - 1899
Hole Present :- Size :- 100 Location :- 1900 - 1999
-----QUEUE STATUS-----
At time t = 600, these are the processes present in Queue:
Process: 8 Arrival Time: 600
-----QUEUE STATUS-----
At time t = 700, these are the processes present in Queue:
Process: 8 Arrival Time: 600
Process: 9 Arrival Time: 700
Process: 7 is completed and removed at time t = 2000
----- at time t = 2000
Hole Present :- Size :- 300 Location :- 0 - 299
Hole Present :- Size :- 100 Location :- 300 - 399
Process: - 2 Segment: - 0 Size: -200 Location: - 400 - 599
Hole Present :- Size :- 300 Location :- 600 - 899
Process: - 4 Segment: - 0 Size: -100 Location: - 900 - 999
Hole Present :- Size :- 500 Location :- 1000 - 1499
Process: - 6 Segment: - 0 Size: -400 Location: - 1500 - 1899
Hole Present :- Size :- 100 Location :- 1900 - 1999
Process: 2 is completed and removed at time t = 2000
----- at time t = 2000
Hole Present :- Size :- 300 Location :- 0 - 299
Hole Present :- Size :- 100 Location :- 300 - 399
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Hole Present :- Size :- 200 Location :- 400 - 599
Hole Present :- Size :- 300 Location :- 600 - 899
Process: - 4 Segment: - 0 Size: -100 Location: - 900 - 999
Hole Present :- Size :- 500 Location :- 1000 - 1499
Process: - 6 Segment: - 0 Size: -400 Location: - 1500 - 1899
Hole Present :- Size :- 100 Location :- 1900 - 1999
Process: 4 is completed and removed at time t = 2000
----- at time t = 2000
Hole Present :- Size :- 300 Location :- 0 - 299
Hole Present :- Size :- 100 Location :- 300 - 399
Hole Present :- Size :- 200 Location :- 400 - 599
Hole Present :- Size :- 300 Location :- 600 - 899
Hole Present :- Size :- 100 Location :- 900 - 999
Hole Present :- Size :- 500 Location :- 1000 - 1499
Process: - 6 Segment: - 0 Size: -400 Location: - 1500 - 1899
Hole Present :- Size :- 100 Location :- 1900 - 1999
Process: 6 is completed and removed at time t = 2000
----- at time t = 2000
Hole Present :- Size :- 300 Location :- 0 - 299
Hole Present :- Size :- 100 Location :- 300 - 399
Hole Present :- Size :- 200 Location :- 400 - 599
Hole Present :- Size :- 300 Location :- 600 - 899
Hole Present :- Size :- 100 Location :- 900 - 999
Hole Present :- Size :- 500 Location :- 1000 - 1499
Hole Present :- Size :- 400 Location :- 1500 - 1899
Hole Present :- Size :- 100 Location :- 1900 - 1999
Process: 8 added at time t = 2000
----- at time t = 2000
Process: - 8 Segment: - 0 Size: -200 Location: - 0 - 199
Process: - 8 Segment: - 1 Size: -200 Location: - 200 - 399
Process: - 8 Segment: - 2 Size: -200 Location: - 400 - 599
Hole Present :- Size :- 1400 Location :- 600 - 1999
Process: 9 added at time t = 2000
----- at time t = 2000
Process: - 8 Segment: - 0 Size: -200 Location: - 0 - 199
Process: - 8 Segment: - 1 Size: -200 Location: - 200 - 399
Process: - 8 Segment: - 2 Size: -200 Location: - 400 - 599
Process: - 9 Segment: - 0 Size: -200 Location: - 600 - 799
Process: - 9 Segment: - 1 Size: -200 Location: - 800 - 999
Hole Present :- Size :- 1000 Location :- 1000 - 1999
Process: 8 is completed and removed at time t = 3500
----- at time t = 3500
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Hole Present :- Size :- 200 Location :- 0 - 199
Hole Present :- Size :- 200 Location :- 200 - 399
Hole Present :- Size :- 200 Location :- 400 - 599
Process: - 9 Segment: - 0 Size: -200 Location: - 600 - 799
Process: - 9 Segment: - 1 Size: -200 Location: - 800 - 999
Hole Present :- Size :- 1000 Location :- 1000 - 1999
Process: 9 is completed and removed at time t = 3500
----- at time t = 3500
Hole Present :- Size :- 200 Location :- 0 - 199
Hole Present :- Size :- 200 Location :- 200 - 399
Hole Present :- Size :- 200 Location :- 400 - 599
Hole Present :- Size :- 200 Location :- 600 - 799
Hole Present :- Size :- 200 Location :- 800 - 999
Hole Present :- Size :- 1000 Location :- 1000 - 1999
Average turnaround time is: 1533.33
Press 1 for first fit or 2 for best fit or 3 for worst fit or any other number key for exiting: 2
-----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
-----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: 5 Arrival Time: 0
-----QUEUE STATUS-----
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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: 5 Arrival Time: 0
Process: 6 Arrival Time: 0
Process: 1 added at time t = 0
----- at time t = 0
Process: - 1 Segment: - 0 Size: -200 Location: - 0 - 199
Process: - 1 Segment: - 1 Size: -200 Location: - 200 - 399
Hole Present :- Size :- 1600 Location :- 400 - 1999
Process: 2 added at time t = 0
----- at time t = 0
Process: - 1 Segment: - 0 Size: -200 Location: - 0 - 199
Process: - 1 Segment: - 1 Size: -200 Location: - 200 - 399
Process: - 2 Segment: - 0 Size: -200 Location: - 400 - 599
Hole Present :- Size :- 1400 Location :- 600 - 1999
Process: 3 added at time t = 0
----- at time t = 0
Process: - 1 Segment: - 0 Size: -200 Location: - 0 - 199
Process: - 1 Segment: - 1 Size: -200 Location: - 200 - 399
Process: - 2 Segment: - 0 Size: -200 Location: - 400 - 599
Process: - 3 Segment: - 0 Size: -100 Location: - 600 - 699
Process: - 3 Segment: - 1 Size: -200 Location: - 700 - 899
Hole Present :- Size :- 1100 Location :- 900 - 1999
Process: 4 added at time t = 0
----- at time t = 0
Process: - 1 Segment: - 0 Size: -200 Location: - 0 - 199
Process: - 1 Segment: - 1 Size: -200 Location: - 200 - 399
Process: - 2 Segment: - 0 Size: -200 Location: - 400 - 599
Process: - 3 Segment: - 0 Size: -100 Location: - 600 - 699
Process: - 3 Segment: - 1 Size: -200 Location: - 700 - 899
Process: - 4 Segment: - 0 Size: -100 Location: - 900 - 999
Hole Present :- Size :- 1000 Location :- 1000 - 1999
Process: 5 added at time t = 0
----- at time t = 0
Process: - 1 Segment: - 0 Size: -200 Location: - 0 - 199
Process: - 1 Segment: - 1 Size: -200 Location: - 200 - 399
Process :- 2 Segment :- 0 Size :-200 Location :- 400 - 599
Process: - 3 Segment: - 0 Size: -100 Location: - 600 - 699
Process: - 3 Segment: - 1 Size: -200 Location: - 700 - 899
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Process: - 4 Segment: - 0 Size: -100 Location: - 900 - 999
Process: - 5 Segment: - 0 Size: -100 Location: - 1000 - 1099
Process: - 5 Segment: - 1 Size: -200 Location: - 1100 - 1299
Process: - 5 Segment: - 2 Size: -200 Location: - 1300 - 1499
Hole Present :- Size :- 500 Location :- 1500 - 1999
Process: 6 added at time t = 0
----- at time t = 0
Process :- 1 Segment :- 0 Size :-200 Location :- 0 - 199
Process: - 1 Segment: - 1 Size: -200 Location: - 200 - 399
Process: - 2 Segment: - 0 Size: -200 Location: - 400 - 599
Process: - 3 Segment: - 0 Size: -100 Location: - 600 - 699
Process: - 3 Segment: - 1 Size: -200 Location: - 700 - 899
Process: - 4 Segment: - 0 Size: -100 Location: - 900 - 999
Process :- 5 Segment :- 0 Size :-100 Location :- 1000 - 1099
Process: - 5 Segment: - 1 Size: -200 Location: - 1100 - 1299
Process: - 5 Segment: - 2 Size: -200 Location: - 1300 - 1499
Process: - 6 Segment: - 0 Size: -400 Location: - 1500 - 1899
Hole Present :- Size :- 100 Location :- 1900 - 1999
Process: 1 is completed and removed at time t = 200
----- at time t = 200
Hole Present :- Size :- 200 Location :- 0 - 199
Hole Present :- Size :- 200 Location :- 200 - 399
Process: - 2 Segment: - 0 Size: -200 Location: - 400 - 599
Process: - 3 Segment: - 0 Size: -100 Location: - 600 - 699
Process: - 3 Segment: - 1 Size: -200 Location: - 700 - 899
Process: - 4 Segment: - 0 Size: -100 Location: - 900 - 999
Process :- 5 Segment :- 0 Size :-100 Location :- 1000 - 1099
Process: - 5 Segment: - 1 Size: -200 Location: - 1100 - 1299
Process: - 5 Segment: - 2 Size: -200 Location: - 1300 - 1499
Process: - 6 Segment: - 0 Size: -400 Location: - 1500 - 1899
Hole Present :- Size :- 100 Location :- 1900 - 1999
Process: 3 is completed and removed at time t = 200
----- at time t = 200
Hole Present :- Size :- 200 Location :- 0 - 199
Hole Present :- Size :- 200 Location :- 200 - 399
Process: - 2 Segment: - 0 Size: -200 Location: - 400 - 599
Hole Present :- Size :- 100 Location :- 600 - 699
Hole Present :- Size :- 200 Location :- 700 - 899
Process: - 4 Segment: - 0 Size: -100 Location: - 900 - 999
Process :- 5 Segment :- 0 Size :-100 Location :- 1000 - 1099
Process: - 5 Segment: - 1 Size: -200 Location: - 1100 - 1299
Process: - 5 Segment: - 2 Size: -200 Location: - 1300 - 1499
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Process: - 6 Segment: - 0 Size: -400 Location: - 1500 - 1899
Hole Present :- Size :- 100 Location :- 1900 - 1999
Process: 5 is completed and removed at time t = 200
----- at time t = 200
Hole Present :- Size :- 200 Location :- 0 - 199
Hole Present :- Size :- 200 Location :- 200 - 399
Process: - 2 Segment: - 0 Size: -200 Location: - 400 - 599
Hole Present :- Size :- 100 Location :- 600 - 699
Hole Present :- Size :- 200 Location :- 700 - 899
Process: - 4 Segment: - 0 Size: -100 Location: - 900 - 999
Hole Present :- Size :- 100 Location :- 1000 - 1099
Hole Present :- Size :- 200 Location :- 1100 - 1299
Hole Present :- Size :- 200 Location :- 1300 - 1499
Process: - 6 Segment: - 0 Size: -400 Location: - 1500 - 1899
Hole Present :- Size :- 100 Location :- 1900 - 1999
-----QUEUE STATUS-----
At time t = 500, these are the processes present in Queue:
Process: 7 Arrival Time: 500
Process: 7 added at time t = 500
----- at time t = 500
Hole Present :- Size :- 400 Location :- 0 - 399
Process: - 2 Segment: - 0 Size: -200 Location: - 400 - 599
Process: - 7 Segment: - 0 Size: -300 Location: - 600 - 899
Process: - 4 Segment: - 0 Size: -100 Location: - 900 - 999
Process: - 7 Segment: - 1 Size: -500 Location: - 1000 - 1499
Process: - 6 Segment: - 0 Size: -400 Location: - 1500 - 1899
Hole Present :- Size :- 100 Location :- 1900 - 1999
-----QUEUE STATUS-----
At time t = 600, these are the processes present in Queue:
Process: 8 Arrival Time: 600
-----QUEUE STATUS-----
At time t = 700, these are the processes present in Queue:
Process: 8 Arrival Time: 600
Process: 9 Arrival Time: 700
Process: 9 added at time t = 700
----- at time t = 700
Process: - 9 Segment: - 0 Size: -200 Location: - 0 - 199
Process: - 9 Segment: - 1 Size: -200 Location: - 200 - 399
Process: - 2 Segment: - 0 Size: -200 Location: - 400 - 599
Process: - 7 Segment: - 0 Size: -300 Location: - 600 - 899
Process: - 4 Segment: - 0 Size: -100 Location: - 900 - 999
Process: - 7 Segment: - 1 Size: -500 Location: - 1000 - 1499
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Process: - 6 Segment: - 0 Size: -400 Location: - 1500 - 1899
Hole Present :- Size :- 100 Location :- 1900 - 1999
Process: 2 is completed and removed at time t = 2000
----- at time t = 2000
Process :- 9 Segment :- 0 Size :-200 Location :- 0 - 199
Process: - 9 Segment: - 1 Size: -200 Location: - 200 - 399
Hole Present :- Size :- 200 Location :- 400 - 599
Process: - 7 Segment: - 0 Size: -300 Location: - 600 - 899
Process: - 4 Segment: - 0 Size: -100 Location: - 900 - 999
Process: - 7 Segment: - 1 Size: -500 Location: - 1000 - 1499
Process: - 6 Segment: - 0 Size: -400 Location: - 1500 - 1899
Hole Present :- Size :- 100 Location :- 1900 - 1999
Process: 7 is completed and removed at time t = 2000
----- at time t = 2000
Process: - 9 Segment: - 0 Size: -200 Location: - 0 - 199
Process: - 9 Segment: - 1 Size: -200 Location: - 200 - 399
Hole Present :- Size :- 200 Location :- 400 - 599
Hole Present :- Size :- 300 Location :- 600 - 899
Process: - 4 Segment: - 0 Size: -100 Location: - 900 - 999
Hole Present :- Size :- 500 Location :- 1000 - 1499
Process: - 6 Segment: - 0 Size: -400 Location: - 1500 - 1899
Hole Present :- Size :- 100 Location :- 1900 - 1999
Process: 4 is completed and removed at time t = 2000
----- at time t = 2000
Process: - 9 Segment: - 0 Size: -200 Location: - 0 - 199
Process: - 9 Segment: - 1 Size: -200 Location: - 200 - 399
Hole Present :- Size :- 200 Location :- 400 - 599
Hole Present :- Size :- 300 Location :- 600 - 899
Hole Present :- Size :- 100 Location :- 900 - 999
Hole Present :- Size :- 500 Location :- 1000 - 1499
Process: - 6 Segment: - 0 Size: -400 Location: - 1500 - 1899
Hole Present :- Size :- 100 Location :- 1900 - 1999
Process: 6 is completed and removed at time t = 2000
----- at time t = 2000
Process: - 9 Segment: - 0 Size: -200 Location: - 0 - 199
Process: - 9 Segment: - 1 Size: -200 Location: - 200 - 399
Hole Present :- Size :- 200 Location :- 400 - 599
Hole Present :- Size :- 300 Location :- 600 - 899
Hole Present :- Size :- 100 Location :- 900 - 999
Hole Present :- Size :- 500 Location :- 1000 - 1499
Hole Present :- Size :- 400 Location :- 1500 - 1899
Hole Present :- Size :- 100 Location :- 1900 - 1999
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Process: 8 added at time t = 2000
----- at time t = 2000
Process :- 9 Segment :- 0 Size :-200 Location :- 0 - 199
Process: - 9 Segment: - 1 Size: -200 Location: - 200 - 399
Process: - 8 Segment: - 0 Size: -200 Location: - 400 - 599
Process: - 8 Segment: - 1 Size: -200 Location: - 600 - 799
Process: - 8 Segment: - 2 Size: -200 Location: - 800 - 999
Hole Present :- Size :- 1000 Location :- 1000 - 1999
Process: 9 is completed and removed at time t = 2200
----- at time t = 2200
Hole Present :- Size :- 200 Location :- 0 - 199
Hole Present :- Size :- 200 Location :- 200 - 399
Process: - 8 Segment: - 0 Size: -200 Location: - 400 - 599
Process: - 8 Segment: - 1 Size: -200 Location: - 600 - 799
Process: - 8 Segment: - 2 Size: -200 Location: - 800 - 999
Hole Present :- Size :- 1000 Location :- 1000 - 1999
Process: 8 is completed and removed at time t = 3500
----- at time t = 3500
Hole Present :- Size :- 400 Location :- 0 - 399
Hole Present :- Size :- 200 Location :- 400 - 599
Hole Present :- Size :- 200 Location :- 600 - 799
Hole Present :- Size :- 200 Location :- 800 - 999
Hole Present :- Size :- 1000 Location :- 1000 - 1999
Average turnaround time is: 1388.89
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
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Process: 4 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: 5 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: 5 Arrival Time: 0
Process: 6 Arrival Time: 0
Process: 1 added at time t = 0
----- at time t = 0
Process :- 1 Segment :- 0 Size :-200 Location :- 0 - 199
Process: - 1 Segment: - 1 Size: -200 Location: - 200 - 399
Hole Present :- Size :- 1600 Location :- 400 - 1999
Process: 2 added at time t = 0
----- at time t = 0
Process: - 1 Segment: - 0 Size: -200 Location: - 0 - 199
Process: - 1 Segment: - 1 Size: -200 Location: - 200 - 399
Process: - 2 Segment: - 0 Size: -200 Location: - 400 - 599
Hole Present :- Size :- 1400 Location :- 600 - 1999
Process: 3 added at time t = 0
----- at time t = 0
Process :- 1 Segment :- 0 Size :-200 Location :- 0 - 199
Process: - 1 Segment: - 1 Size: -200 Location: - 200 - 399
Process :- 2 Segment :- 0 Size :-200 Location :- 400 - 599
Process: - 3 Segment: - 0 Size: -100 Location: - 600 - 699
Process: - 3 Segment: - 1 Size: -200 Location: - 700 - 899
Hole Present :- Size :- 1100 Location :- 900 - 1999
Process: 4 added at time t = 0
----- at time t = 0
Process: - 1 Segment: - 0 Size: -200 Location: - 0 - 199
Process: - 1 Segment: - 1 Size: -200 Location: - 200 - 399
Process :- 2 Segment :- 0 Size :-200 Location :- 400 - 599
Process: - 3 Segment: - 0 Size: -100 Location: - 600 - 699
Process :- 3 Segment :- 1 Size :-200 Location :- 700 - 899
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Process: - 4 Segment: - 0 Size: -100 Location: - 900 - 999
Hole Present :- Size :- 1000 Location :- 1000 - 1999
Process: 5 added at time t = 0
----- at time t = 0
Process :- 1 Segment :- 0 Size :-200 Location :- 0 - 199
Process: - 1 Segment: - 1 Size: -200 Location: - 200 - 399
Process: - 2 Segment: - 0 Size: -200 Location: - 400 - 599
Process :- 3 Segment :- 0 Size :-100 Location :- 600 - 699
Process: - 3 Segment: - 1 Size: -200 Location: - 700 - 899
Process: - 4 Segment: - 0 Size: -100 Location: - 900 - 999
Process :- 5 Segment :- 0 Size :-100 Location :- 1000 - 1099
Process: - 5 Segment: - 1 Size: -200 Location: - 1100 - 1299
Process: - 5 Segment: - 2 Size: -200 Location: - 1300 - 1499
Hole Present :- Size :- 500 Location :- 1500 - 1999
Process: 6 added at time t = 0
----- at time t = 0
Process: - 1 Segment: - 0 Size: -200 Location: - 0 - 199
Process: - 1 Segment: - 1 Size: -200 Location: - 200 - 399
Process: - 2 Segment: - 0 Size: -200 Location: - 400 - 599
Process: - 3 Segment: - 0 Size: -100 Location: - 600 - 699
Process: - 3 Segment: - 1 Size: -200 Location: - 700 - 899
Process: - 4 Segment: - 0 Size: -100 Location: - 900 - 999
Process: - 5 Segment: - 0 Size: -100 Location: - 1000 - 1099
Process: - 5 Segment: - 1 Size: -200 Location: - 1100 - 1299
Process: - 5 Segment: - 2 Size: -200 Location: - 1300 - 1499
Process: - 6 Segment: - 0 Size: -400 Location: - 1500 - 1899
Hole Present :- Size :- 100 Location :- 1900 - 1999
Process: 1 is completed and removed at time t = 200
----- at time t = 200
Hole Present :- Size :- 200 Location :- 0 - 199
Hole Present :- Size :- 200 Location :- 200 - 399
Process :- 2 Segment :- 0 Size :-200 Location :- 400 - 599
Process: - 3 Segment: - 0 Size: -100 Location: - 600 - 699
Process: - 3 Segment: - 1 Size: -200 Location: - 700 - 899
Process: - 4 Segment: - 0 Size: -100 Location: - 900 - 999
Process: - 5 Segment: - 0 Size: -100 Location: - 1000 - 1099
Process: - 5 Segment: - 1 Size: -200 Location: - 1100 - 1299
Process: - 5 Segment: - 2 Size: -200 Location: - 1300 - 1499
Process: - 6 Segment: - 0 Size: -400 Location: - 1500 - 1899
Hole Present :- Size :- 100 Location :- 1900 - 1999
Process: 3 is completed and removed at time t = 200
----- at time t = 200
```

```
Hole Present :- Size :- 200 Location :- 0 - 199
Hole Present :- Size :- 200 Location :- 200 - 399
Process :- 2 Segment :- 0 Size :-200 Location :- 400 - 599
Hole Present :- Size :- 100 Location :- 600 - 699
Hole Present :- Size :- 200 Location :- 700 - 899
Process: - 4 Segment: - 0 Size: -100 Location: - 900 - 999
Process: - 5 Segment: - 0 Size: -100 Location: - 1000 - 1099
Process: - 5 Segment: - 1 Size: -200 Location: - 1100 - 1299
Process: - 5 Segment: - 2 Size: -200 Location: - 1300 - 1499
Process: - 6 Segment: - 0 Size: -400 Location: - 1500 - 1899
Hole Present :- Size :- 100 Location :- 1900 - 1999
Process: 5 is completed and removed at time t = 200
----- at time t = 200
Hole Present :- Size :- 200 Location :- 0 - 199
Hole Present :- Size :- 200 Location :- 200 - 399
Process: - 2 Segment: - 0 Size: -200 Location: - 400 - 599
Hole Present :- Size :- 100 Location :- 600 - 699
Hole Present :- Size :- 200 Location :- 700 - 899
Process: - 4 Segment: - 0 Size: -100 Location: - 900 - 999
Hole Present :- Size :- 100 Location :- 1000 - 1099
Hole Present :- Size :- 200 Location :- 1100 - 1299
Hole Present :- Size :- 200 Location :- 1300 - 1499
Process: - 6 Segment: - 0 Size: -400 Location: - 1500 - 1899
Hole Present :- Size :- 100 Location :- 1900 - 1999
-----QUEUE STATUS-----
At time t = 500, these are the processes present in Queue:
Process: 7 Arrival Time: 500
-----QUEUE STATUS-----
At time t = 600, these are the processes present in Queue:
Process: 7 Arrival Time: 500
Process: 8 Arrival Time: 600
Process: 8 added at time t = 600
----- at time t = 600
Process: - 8 Segment: - 1 Size: -200 Location: - 0 - 199
Process: - 8 Segment: - 2 Size: -200 Location: - 200 - 399
Process :- 2 Segment :- 0 Size :-200 Location :- 400 - 599
Process: - 8 Segment: - 0 Size: -200 Location: - 600 - 799
Hole Present :- Size :- 100 Location :- 800 - 899
Process: - 4 Segment: - 0 Size: -100 Location: - 900 - 999
Hole Present :- Size :- 500 Location :- 1000 - 1499
Process: - 6 Segment: - 0 Size: -400 Location: - 1500 - 1899
```

Hole Present :- Size :- 100 Location :- 1900 - 1999

```
-----QUEUE STATUS-----
At time t = 700, these are the processes present in Queue:
Process: 7 Arrival Time: 500
Process: 9 Arrival Time: 700
Process: 9 added at time t = 700
----- at time t = 700
Process: - 8 Segment: - 1 Size: -200 Location: - 0 - 199
Process: - 8 Segment: - 2 Size: -200 Location: - 200 - 399
Process: - 2 Segment: - 0 Size: -200 Location: - 400 - 599
Process: - 8 Segment: - 0 Size: -200 Location: - 600 - 799
Hole Present :- Size :- 100 Location :- 800 - 899
Process: - 4 Segment: - 0 Size: -100 Location: - 900 - 999
Process: - 9 Segment: - 0 Size: -200 Location: - 1000 - 1199
Process: - 9 Segment: - 1 Size: -200 Location: - 1200 - 1399
Hole Present :- Size :- 100 Location :- 1400 - 1499
Process: - 6 Segment: - 0 Size: -400 Location: - 1500 - 1899
Hole Present :- Size :- 100 Location :- 1900 - 1999
Process: 2 is completed and removed at time t = 2000
----- at time t = 2000
Process: - 8 Segment: - 1 Size: -200 Location: - 0 - 199
Process: - 8 Segment: - 2 Size: -200 Location: - 200 - 399
Hole Present :- Size :- 200 Location :- 400 - 599
Process: - 8 Segment: - 0 Size: -200 Location: - 600 - 799
Hole Present :- Size :- 100 Location :- 800 - 899
Process: - 4 Segment: - 0 Size: -100 Location: - 900 - 999
Process: - 9 Segment: - 0 Size: -200 Location: - 1000 - 1199
Process: - 9 Segment: - 1 Size: -200 Location: - 1200 - 1399
Hole Present :- Size :- 100 Location :- 1400 - 1499
Process: - 6 Segment: - 0 Size: -400 Location: - 1500 - 1899
Hole Present :- Size :- 100 Location :- 1900 - 1999
Process: 4 is completed and removed at time t = 2000
----- at time t = 2000
Process: - 8 Segment: - 1 Size: -200 Location: - 0 - 199
Process: - 8 Segment: - 2 Size: -200 Location: - 200 - 399
Hole Present :- Size :- 200 Location :- 400 - 599
Process: - 8 Segment: - 0 Size: -200 Location: - 600 - 799
Hole Present :- Size :- 100 Location :- 800 - 899
Hole Present :- Size :- 100 Location :- 900 - 999
Process: - 9 Segment: - 0 Size: -200 Location: - 1000 - 1199
Process: - 9 Segment: - 1 Size: -200 Location: - 1200 - 1399
Hole Present :- Size :- 100 Location :- 1400 - 1499
Process: - 6 Segment: - 0 Size: -400 Location: - 1500 - 1899
```

```
Hole Present :- Size :- 100 Location :- 1900 - 1999
Process: 6 is completed and removed at time t = 2000
----- at time t = 2000
Process: - 8 Segment: - 1 Size: -200 Location: - 0 - 199
Process: - 8 Segment: - 2 Size: -200 Location: - 200 - 399
Hole Present :- Size :- 200 Location :- 400 - 599
Process: - 8 Segment: - 0 Size: -200 Location: - 600 - 799
Hole Present :- Size :- 100 Location :- 800 - 899
Hole Present :- Size :- 100 Location :- 900 - 999
Process: - 9 Segment: - 0 Size: -200 Location: - 1000 - 1199
Process: - 9 Segment: - 1 Size: -200 Location: - 1200 - 1399
Hole Present :- Size :- 100 Location :- 1400 - 1499
Hole Present :- Size :- 400 Location :- 1500 - 1899
Hole Present :- Size :- 100 Location :- 1900 - 1999
Process: 8 is completed and removed at time t = 2100
----- at time t = 2100
Hole Present :- Size :- 200 Location :- 0 - 199
Hole Present :- Size :- 200 Location :- 200 - 399
Hole Present :- Size :- 200 Location :- 400 - 599
Hole Present :- Size :- 200 Location :- 600 - 799
Hole Present :- Size :- 200 Location :- 800 - 999
Process: - 9 Segment: - 0 Size: -200 Location: - 1000 - 1199
Process: - 9 Segment: - 1 Size: -200 Location: - 1200 - 1399
Hole Present :- Size :- 600 Location :- 1400 - 1999
Process: 7 added at time t = 2100
----- at time t = 2100
Process: - 7 Segment: - 1 Size: -500 Location: - 0 - 499
Hole Present :- Size :- 500 Location :- 500 - 999
Process: - 9 Segment: - 0 Size: -200 Location: - 1000 - 1199
Process: - 9 Segment: - 1 Size: -200 Location: - 1200 - 1399
Process: - 7 Segment: - 0 Size: -300 Location: - 1400 - 1699
Hole Present :- Size :- 300 Location :- 1700 - 1999
Process: 9 is completed and removed at time t = 2200
----- at time t = 2200
Process: - 7 Segment: - 1 Size: -500 Location: - 0 - 499
Hole Present :- Size :- 500 Location :- 500 - 999
Hole Present :- Size :- 200 Location :- 1000 - 1199
Hole Present :- Size :- 200 Location :- 1200 - 1399
Process: - 7 Segment: - 0 Size: -300 Location: - 1400 - 1699
Hole Present :- Size :- 300 Location :- 1700 - 1999
Process: 7 is completed and removed at time t = 3600
----- at time t = 3600
```

Hole Present :- Size :- 500 Location :- 0 - 499
Hole Present :- Size :- 900 Location :- 500 - 1399
Hole Present :- Size :- 300 Location :- 1400 - 1699
Hole Present :- Size :- 300 Location :- 1700 - 1999

Average turnaround time is: 1411.11

Press 1 for first fit or 2 for best fit or 3 for worst fit or any other number key for exiting: 6

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