

C:\Windows\System32\cmd.exe

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

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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: 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

Process: 1 added at time t = 0

-----MEMORY STATUS----- at time t = 0

Process :- 1 Segment :- 0 Size :-200 Location :- 0 - 199

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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

-----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

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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 :-400 Location :- 1300 - 1699

Process :- 4 Segment :- 2 Size :-100 Location :- 1700 - 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

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Process :- 4 Segment :- 0 Size :-100 Location :- 1200 - 1299
Process :- 4 Segment :- 1 Size :-400 Location :- 1300 - 1699
Process :- 4 Segment :- 2 Size :-100 Location :- 1700 - 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 :-400 Location :- 1300 - 1699
Process :- 4 Segment :- 2 Size :-100 Location :- 1700 - 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
```

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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 :-400 Location :- 1300 - 1699

Process :- 4 Segment :- 2 Size :-100 Location :- 1700 - 1799

Hole Present :- Size :- 200 Location :- 1800 - 1999

Process: 5 added at time t = 500

-----MEMORY STATUS----- at time t = 500

Process :- 5 Segment :- 0 Size :-500 Location :- 0 - 499

Process :- 5 Segment :- 1 Size :-100 Location :- 500 - 599

Hole Present :- Size :- 400 Location :- 600 - 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 :-400 Location :- 1300 - 1699

Process :- 4 Segment :- 2 Size :-100 Location :- 1700 - 1799

Hole Present :- Size :- 200 Location :- 1800 - 1999

-----QUEUE STATUS-----

At time t = 600, these are the processes present in Queue:

Process: 6 Arrival Time: 600

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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 :-400 Location :- 1300 - 1699

Process :- 4 Segment :- 2 Size :-100 Location :- 1700 - 1799

Hole Present :- Size :- 200 Location :- 1800 - 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 :- 0 Size :-500 Location :- 0 - 499

Process :- 5 Segment :- 1 Size :-100 Location :- 500 - 599

Hole Present :- Size :- 400 Location :- 600 - 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 :-400 Location :- 1300 - 1699

Process :- 4 Segment :- 2 Size :-100 Location :- 1700 - 1799

Hole Present :- Size :- 200 Location :- 1800 - 1999

Process: 6 added at time t = 700

-----MEMORY STATUS----- at time t = 700

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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 :-400 Location :- 1300 - 1699

Process :- 4 Segment :- 2 Size :-100 Location :- 1700 - 1799

Hole Present :- Size :- 200 Location :- 1800 - 1999

Process: 6 added at time t = 700

-----MEMORY STATUS----- at time t = 700

Process :- 5 Segment :- 0 Size :-500 Location :- 0 - 499

Process :- 5 Segment :- 1 Size :-100 Location :- 500 - 599

Process :- 6 Segment :- 0 Size :-500 Location :- 600 - 1099

Process :- 6 Segment :- 1 Size :-100 Location :- 1100 - 1199

Process :- 4 Segment :- 0 Size :-100 Location :- 1200 - 1299

Process :- 4 Segment :- 1 Size :-400 Location :- 1300 - 1699

Process :- 4 Segment :- 2 Size :-100 Location :- 1700 - 1799

Hole Present :- Size :- 200 Location :- 1800 - 1999

Process: 7 added at time t = 700

-----MEMORY STATUS----- at time t = 700

Process :- 5 Segment :- 0 Size :-500 Location :- 0 - 499

Process :- 5 Segment :- 1 Size :-100 Location :- 500 - 599

Process :- 6 Segment :- 0 Size :-500 Location :- 600 - 1099

Process :- 6 Segment :- 1 Size :-100 Location :- 1100 - 1199

Process :- 4 Segment :- 0 Size :-100 Location :- 1200 - 1299

Process :- 4 Segment :- 1 Size :-400 Location :- 1300 - 1699

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Hole Present :- Size :- 200 Location :- 1800 - 1999

Process: 7 added at time t = 700

-----MEMORY STATUS----- at time t = 700

Process :- 5 Segment :- 0 Size :-500 Location :- 0 - 499

Process :- 5 Segment :- 1 Size :-100 Location :- 500 - 599

Process :- 6 Segment :- 0 Size :-500 Location :- 600 - 1099

Process :- 6 Segment :- 1 Size :-100 Location :- 1100 - 1199

Process :- 4 Segment :- 0 Size :-100 Location :- 1200 - 1299

Process :- 4 Segment :- 1 Size :-400 Location :- 1300 - 1699

Process :- 4 Segment :- 2 Size :-100 Location :- 1700 - 1799

Process :- 7 Segment :- 0 Size :-200 Location :- 1800 - 1999

Process: 4 is completed and removed at time t = 1000

-----MEMORY STATUS----- at time t = 1000

Process :- 5 Segment :- 0 Size :-500 Location :- 0 - 499

Process :- 5 Segment :- 1 Size :-100 Location :- 500 - 599

Process :- 6 Segment :- 0 Size :-500 Location :- 600 - 1099

Process :- 6 Segment :- 1 Size :-100 Location :- 1100 - 1199

Hole Present :- Size :- 100 Location :- 1200 - 1299

Hole Present :- Size :- 400 Location :- 1300 - 1699

Hole Present :- Size :- 100 Location :- 1700 - 1799

Process :- 7 Segment :- 0 Size :-200 Location :- 1800 - 1999

Process: 5 is completed and removed at time t = 1100

-----MEMORY STATUS----- at time t = 1100

Hole Present :- Size :- 500 Location :- 0 - 499

Hole Present :- Size :- 100 Location :- 500 - 599

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Process :- 6 Segment :- 1 Size :-100 Location :- 1100 - 1199

Hole Present :- Size :- 100 Location :- 1200 - 1299

Hole Present :- Size :- 400 Location :- 1300 - 1699

Hole Present :- Size :- 100 Location :- 1700 - 1799

Process :- 7 Segment :- 0 Size :-200 Location :- 1800 - 1999

Process: 5 is completed and removed at time t = 1100

-----MEMORY STATUS----- at time t = 1100

Hole Present :- Size :- 500 Location :- 0 - 499

Hole Present :- Size :- 100 Location :- 500 - 599

Process :- 6 Segment :- 0 Size :-500 Location :- 600 - 1099

Process :- 6 Segment :- 1 Size :-100 Location :- 1100 - 1199

Hole Present :- Size :- 600 Location :- 1200 - 1799

Process :- 7 Segment :- 0 Size :-200 Location :- 1800 - 1999

Process: 6 is completed and removed at time t = 1300

-----MEMORY STATUS----- at time t = 1300

Hole Present :- Size :- 600 Location :- 0 - 599

Hole Present :- Size :- 500 Location :- 600 - 1099

Hole Present :- Size :- 100 Location :- 1100 - 1199

Hole Present :- Size :- 600 Location :- 1200 - 1799

Process :- 7 Segment :- 0 Size :-200 Location :- 1800 - 1999

Process: 7 is completed and removed at time t = 1300

-----MEMORY STATUS----- at time t = 1300

Hole Present :- Size :- 600 Location :- 0 - 599

Hole Present :- Size :- 500 Location :- 600 - 1099

Hole Present :- Size :- 100 Location :- 1100 - 1199

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Hole Present :- Size :- 500 Location :- 600 - 1099

Hole Present :- Size :- 100 Location :- 1100 - 1199

Hole Present :- Size :- 600 Location :- 1200 - 1799

Process :- 7 Segment :- 0 Size :-200 Location :- 1800 - 1999

Process: 7 is completed and removed at time t = 1300

-----MEMORY STATUS----- at time t = 1300

Hole Present :- Size :- 600 Location :- 0 - 599

Hole Present :- Size :- 500 Location :- 600 - 1099

Hole Present :- Size :- 100 Location :- 1100 - 1199

Hole Present :- Size :- 600 Location :- 1200 - 1799

Hole Present :- Size :- 200 Location :- 1800 - 1999

Average turnaround time is: 614.286

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

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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

-----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

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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

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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
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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

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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

Process: 6 added at time t = 600

-----MEMORY STATUS----- at time t = 600

Process :- 5 Segment :- 1 Size :-500 Location :- 0 - 499

Process :- 6 Segment :- 1 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

Process :- 6 Segment :- 0 Size :-100 Location :- 1900 - 1999

-----QUEUE STATUS-----

At time t = 700, these are the processes present in Queue:

Process: 7 Arrival Time: 700

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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

Process :- 6 Segment :- 0 Size :-100 Location :- 1900 - 1999

-----QUEUE STATUS-----

At time t = 700, these are the processes present in Queue:

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

Process :- 6 Segment :- 1 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

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

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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

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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 = 1200

-----MEMORY STATUS----- at time t = 1200

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

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Process: 6 is completed and removed at time t = 1200

-----MEMORY STATUS----- at time t = 1200

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 :- 1000 Location :- 0 - 999

Hole Present :- Size :- 200 Location :- 1000 - 1199

Hole Present :- Size :- 800 Location :- 1200 - 1999

Average turnaround time is: 600

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

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-----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

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-----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

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```
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
```

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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

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```
-----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
```

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-----MEMORY STATUS----- at time t = 700

Process: 7 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: 5 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

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```
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
```

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-----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

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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

Press 1 for first fit or 2 for best fit or 3 for worst fit or any other number key for exiting: 4

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