```
Command Prompt                                                    —  □  ✕

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
```

```
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
Process Lifetime: 1500
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
```

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: 6 Arrival Time: 0

Process: 1 added at time t = 0

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

---------------MEMORY STATUS--------------- 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

---------------MEMORY STATUS--------------- 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

---------------MEMORY STATUS--------------- 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 :- 1400 Location :- 600 - 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 :-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

---------------MEMORY STATUS--------------- 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

---------------MEMORY STATUS--------------- 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 :- 4 Segment :- 0 Size :-100 Location :- 900 - 999

Hole Present :-  Size :- 1000 Location :- 1000 - 1999

Process: 5 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 :-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

---------------MEMORY STATUS--------------- 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
```

```
---------------MEMORY STATUS--------------- 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

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

---------------MEMORY STATUS--------------- 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
```

```
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

---------------MEMORY STATUS--------------- 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

---------------MEMORY STATUS--------------- at time t = 200
```

```
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

---------------MEMORY STATUS--------------- 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

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

---------------MEMORY STATUS--------------- at time t = 500
Process :- 7 Segment :- 0 Size :-300 Location :- 0 - 299
```

```
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

--------------MEMORY STATUS--------------- 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

--------------MEMORY STATUS--------------- at time t = 2000
Hole Present :-  Size :- 300 Location :- 0 - 299

Hole Present :-  Size :- 100 Location :- 300 - 399
```

```
--------------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

---------------MEMORY STATUS--------------- 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

---------------MEMORY STATUS--------------- 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

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
```

```
---------------MEMORY STATUS--------------- 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

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

---------------MEMORY STATUS--------------- 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

---------------MEMORY STATUS--------------- 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 :- 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

---------------MEMORY STATUS--------------- 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

---------------MEMORY STATUS--------------- 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

---------------MEMORY STATUS--------------- 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 :- 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

---------------MEMORY STATUS--------------- 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

---------------MEMORY STATUS--------------- 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

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

---------------MEMORY STATUS--------------- 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
```

```
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

---------------MEMORY STATUS---------------- 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
```

```
--------------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: 6 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 :-200 Location :- 200 - 399

Hole Present :-  Size :- 1600 Location :- 400 - 1999

Process: 2 added at time t = 0
```

```
Command Prompt                                                    —    □    ×

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

---------------MEMORY STATUS--------------- 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

---------------MEMORY STATUS--------------- 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

---------------MEMORY STATUS--------------- 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

---------------MEMORY STATUS--------------- at time t = 0
Process :- 1 Segment :- 0 Size :-200 Location :- 0 - 199

Process :- 1 Segment :- 1 Size :-200 Location :- 200 - 399
```

```
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

---------------MEMORY STATUS---------------- 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

---------------MEMORY STATUS---------------- 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 :- 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

---------------MEMORY STATUS--------------- 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
```

```
Command Prompt                                                    —    □    ×

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

----------------MEMORY STATUS---------------- 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

----------------MEMORY STATUS---------------- at time t = 200
Hole Present :-  Size :- 200 Location :- 0 - 199

Hole Present :-  Size :- 200 Location :- 200 - 399
```

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

---------------MEMORY STATUS--------------- 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

---------------MEMORY STATUS--------------- 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

```
Command Prompt                                                                    —   □   X

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

----------------MEMORY STATUS---------------- 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

----------------MEMORY STATUS---------------- 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
```

```
--------------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

---------------MEMORY STATUS---------------- 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

---------------MEMORY STATUS---------------- 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

Process :- 6 Segment :- 0 Size :-400 Location :- 1500 - 1899
```

```
Process: 9 added at time t = 700

---------------MEMORY STATUS--------------- 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

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

---------------MEMORY STATUS--------------- 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

---------------MEMORY STATUS--------------- 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 :- 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

---------------MEMORY STATUS--------------- 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

---------------MEMORY STATUS--------------- 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
```

```
Command Prompt                                                    —    □    ✕

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

---------------MEMORY STATUS--------------- 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

Process: 8 added at time t = 2000

---------------MEMORY STATUS--------------- 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
```

Hole Present :- Size :- 400 Location :- 1500 - 1899

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

Process: 8 added at time t = 2000

---------------MEMORY STATUS--------------- 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

---------------MEMORY STATUS--------------- 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

---------------MEMORY STATUS--------------- 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

```
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

---------------MEMORY STATUS--------------- 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
Process: 4 Arrival Time: 0

--------------QUEUE STATUS-----------
At time t = 0, these are the processes present in Queue:
```

```
--------------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: 6 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 :-200 Location :- 200 - 399

Hole Present :-  Size :- 1600 Location :- 400 - 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 :-200 Location :- 200 - 399
```

```
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 :-200 Location :- 200 - 399

Hole Present :-  Size :- 1600 Location :- 400 - 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 :-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

---------------MEMORY STATUS--------------- 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

---------------MEMORY STATUS--------------- 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 :- 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

---------------MEMORY STATUS--------------- 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

---------------MEMORY STATUS--------------- 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 :- 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

----------------MEMORY STATUS---------------- 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

----------------MEMORY STATUS---------------- at time t = 200
Hole Present :-  Size :- 200 Location :- 0 - 199
```

```
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

---------------MEMORY STATUS---------------- 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

---------------MEMORY STATUS---------------- 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
```

```
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

---------------MEMORY STATUS--------------- 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

---------------MEMORY STATUS--------------- 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 is completed and removed at time t = 200

---------------MEMORY STATUS--------------- 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

---------------MEMORY STATUS--------------- 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
```

```
Command Prompt                                                    —  □  ×

--------------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

---------------MEMORY STATUS--------------- 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

---------------MEMORY STATUS--------------- 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
```

```
Command Prompt                                                    —  □  ×

Process: 9 added at time t = 700

---------------MEMORY STATUS--------------- 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

---------------MEMORY STATUS--------------- 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 :- 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

---------------MEMORY STATUS--------------- 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 :- 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

---------------MEMORY STATUS--------------- 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

---------------MEMORY STATUS--------------- at time t = 2100
Hole Present :-  Size :- 200 Location :- 0 - 199
```

```
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

---------------MEMORY STATUS--------------- 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

---------------MEMORY STATUS--------------- 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
```

```
Process: 7 added at time t = 2100

---------------MEMORY STATUS--------------- 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

---------------MEMORY STATUS--------------- 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

---------------MEMORY STATUS--------------- 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
```

```
Process: 7 is completed and removed at time t = 3600

----------------MEMORY STATUS---------------- 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

C:\Users\HP\Desktop\OS-Project>
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