

C:\Jasleen\cmake-build-debug\Jasleen.exe

Enter the number of resources:3

Enter the available resources:

3 3 2

Press 1 for adding farmer

Press 2 for checking safe state and getting safe sequence

Press 3 to print available date

Press 4 to exit.

1

Enter resources currently allocated to farmer

0 1 0

Enter maximum resources demanded by farmer

7 5 3

Press 1 for adding farmer

Press 2 for checking safe state and getting safe sequence

Press 3 to print available date

Press 4 to exit.

1

Enter resources currently allocated to farmer

2 0 0

Enter maximum resources demanded by farmer

3 2 2

Press 1 for adding farmer

Press 2 for checking safe state and getting safe sequence

Press 3 to print available date

Press 4 to exit.

1

Enter resources currently allocated to farmer

3 0 2

Enter maximum resources demanded by farmer

9 0 2

Press 1 for adding farmer

Press 2 for checking safe state and getting safe sequence

Press 3 to print available date

Press 4 to exit.

1

Enter resources currently allocated to farmer

2 1 1

Enter maximum resources demanded by farmer

2 2 2

Press 1 for adding farmer

Press 2 for checking safe state and getting safe sequence

Press 3 to print available date

Press 4 to exit.

1

Enter resources currently allocated to farmer

0 0 2

Enter maximum resources demanded by farmer

4 3 3

Press 1 for adding farmer

Press 2 for checking safe state and getting safe sequence

Press 3 to print available date

Press 4 to exit.

3

Farmer	Allocation	Need	Max	Available
F1	0 1 0	7 4 3	7 5 3	3 3 2
F2	2 0 0	1 2 2	3 2 2	
F3	3 0 2	6 0 0	9 0 2	
F4	2 1 1	0 1 1	2 2 2	
F5	0 0 2	4 3 1	4 3 3	

Press 1 for adding farmer

Press 2 for checking safe state and getting safe sequence

Press 3 to print available date

Press 4 to exit.

2

No deadlock

Safe Sequence is :

Farmer2 -> Farmer4 -> Farmer5 -> Farmer1 -> Farmer3

Press 1 for adding farmer

Press 2 for checking safe state and getting safe sequence

Press 3 to print available date

Press 4 to exit.

1

Enter resources currently allocated to farmer

0 0 0

Enter maximum resources demanded by farmer

10 5 7

Press 1 for adding farmer

Press 2 for checking safe state and getting safe sequence

Press 3 to print available date

Press 4 to exit.

3

Farmer	Allocation	Need	Max	Available
F1	0 1 0	7 4 3	7 5 3	3 3 2
F2	2 0 0	1 2 2	3 2 2	
F3	3 0 2	6 0 0	9 0 2	
F4	2 1 1	0 1 1	2 2 2	
F5	0 0 2	4 3 1	4 3 3	
F6	0 0 0	10 5 7	10 5 7	

Press 1 for adding farmer

Press 2 for checking safe state and getting safe sequence

Press 3 to print available date

Press 4 to exit.

2

Deadlock Occurs :

Press 1 to remove deadlock and print safe sequence, any other key to continue

1

Deallocate all Resources from following farmers :

Farmer2

After De-allocation of resources from the farmers mentioned above , data is :

Farmer	Allocation	Need	Max	Available
F1	0 1 0	7 4 3	7 5 3	5 3 2
F2	0 0 0	3 2 2	3 2 2	
F3	3 0 2	6 0 0	9 0 2	
F4	2 1 1	0 1 1	2 2 2	
F5	0 0 2	4 3 1	4 3 3	
F6	0 0 0	10 5 7	10 5 7	

Farmer2 -> Farmer4 -> Farmer5 -> Farmer1 -> Farmer3 -> Farmer6

Press 1 for adding farmer

Press 2 for checking safe state and getting safe sequence

Press 3 to print available date

Press 4 to exit.

1

Enter resources currently allocated to farmer

0 0 0

Enter maximum resources demanded by farmer

20 20 20

Press 1 for adding farmer

Press 2 for checking safe state and getting safe sequence

Press 3 to print available date

Press 4 to exit.

2

Deadlock Occurs :

Press 1 to remove deadlock and print safe sequence, any other key to continue

1

Deadlock cannot be Removed as one or more farmers are requesting resources greater than the overall available resources.

Press 1 for adding farmer

Press 2 for checking safe state and getting safe sequence

Press 3 to print available date

Press 4 to exit.

4

Process finished with exit code 0