```
network@network-HCL-Desktop:~/Documents/OSLAB$ gcc BankersAlgo.cpp
network@network-HCL-Desktop:~/Documents/OSLAB$ ./a.out
Enter the Number of Processes: 5
Enter the Number of Resources: 4
Enter the Maximum Matrix of a Process:
0
0
1
2
1
7
5
0
2
3
5
6
0
6
5
2
0
6
5
6
Enter the Allocated Matrix of a Process:
0
0
1
2
1
```

0

0

0

1

3

5

4

0

6

3

2

0

0

1

4

Enter the Available Vector:

1

5

2

0

Printing ALLOCATION Matrix:

0 0 1 2

1 0 0 0

1 3 5 4

0 6 3 2

0 0 1 4

Printing NEED Matrix:

0 0 0 0

0 7 5 0

1 0 0 2

0 0 2 0

0 6 4 2

Printing AVAILABLE VECTOR:

1 5 2 0

Following System is in SAFE STATE

The Following is the SAFE SEQUENCE that will be executed according to the Banker's Algorithm:

P0 -> P2 -> P3 -> P4 -> P1

network@network-HCL-Desktop:~/Documents/OSLAB$ gcc BankersAlgo.cpp

network@network-HCL-Desktop:~/Documents/OSLAB$ ./a.out

Enter the Number of Processes: 4

Enter the Number of Resources: 3

Enter the Maximum Matrix of a Process:

3

4

2

3

4

5

4

3

7

5

3

8

Enter the Allocated Matrix of a Process:

1

0

0

1

0

1

2

3

2

1

0

0

Enter the Available Vector:

1

0

1

Printing ALLOCATION Matrix:

1 0 0

1 0 1

2 3 2

1 0 0

Printing NEED Matrix:

2 4 2

2 4 4

2 0 5

4 3 8

Printing AVAILABLE VECTOR:

1 0 1

Following System is NOT in Safe Sequence