

Screenshot Using Compilation and Execution Commands

```
● mdeprofi@hornet:~/OS_Project2$ gcc bankers.c -o bankers
● mdeprofi@hornet:~/OS_Project2$ ./bankers
```

Screenshot of Output Showing Safe State and Safe Sequence

```
Allocation Matrix:
P0: 0 1 0
P1: 2 0 0
P2: 3 0 2
P3: 2 2 1
P4: 0 0 2

Max Matrix:
P0: 7 5 3
P1: 3 3 2
P2: 9 0 2
P3: 2 2 2
P4: 4 3 3

Need Matrix (Max - Allocation):
P0: 7 4 3
P1: 1 3 2
P2: 6 0 0
P3: 0 0 1
P4: 4 3 1

Initial Available Resources: 3 2 2

The system is in a safe state.
Safe Sequence: < P3, P4, P1, P2, P0 >
```

The output correctly answers the question whether the system is in a safe state, while also outputting the safe sequence.