**Assignment on Banker's Algorithm**

Implement the Banker's Algorithm for avoiding deadlock in a certain situation.

**Input**:

1. The processes

2. The Allocation, Max and Available Matrix.

3. You have to calculate the Need matrix.

*Allocation Max Available*

*A B C A B C A B C*

*P*0 0 1 0 7 5 3 3 3 2

*P*1 2 0 0 3 2 2

*P*2 3 0 2 9 0 2

*P*3 2 1 1 2 2 2

*P*4 0 0 2 4 3 3

**output**:

1. Safety Sequence of the processes

2. print every steps value of the Available, Max, Allocation and Need Matrix.

3. Show the final value of all these Matrices after processing all the processes.