

bankalgorithmos.c

```
1 #include <stdio.h>
2 #include <conio.h>
3 int main()
4 {
5     int Max[10][10], need[10][10], alloc[10][10], avail[10], completed[10], safeSequence[10];
6     int p, r, i, j, process, count;
7     count = 0;
8     printf("Enter the no of processes : ");
9     scanf("%d", &p);
10    for(i = 0; i < p; i++)
11        completed[i] = 0;
12    printf("Enter the no of resources : ");
13    scanf("%d", &r);
14    printf("Enter the Max Matrix for each process : \n");
15    for(i = 0; i < p; i++)
16    {
17        printf("For process %d : ", i + 1);
18        for(j = 0; j < r; j++)
19            scanf("%d", &Max[i][j]);
20    }
21    printf("Enter the allocation for each process : \n");
22    for(i = 0; i < p; i++)
23    {
24        printf("For process %d : ", i + 1);
25        for(j = 0; j < r; j++)
26            scanf("%d", &alloc[i][j]);
27    }
```

C:\Users\aswin\Documents\bankalgorithmos.exe

```
Enter the no of processes : 2
Enter the no of resources : 2
Enter the Max Matrix for each process :
For process 1 : 3 4
For process 2 : 1 2
Enter the allocation for each process :
For process 1 : 5 6
For process 2 : 0 2
Enter the Available Resources : 3 5
```

Max matrix:	Allocation matrix:
3 4	5 6
1 2	0 2

Process 1 runs to completion!

Max matrix:	Allocation matrix:
0 0	0 0
1 2	0 2

Process 2 runs to completion!

The system is in a safe state!!

Safe Sequence : &lt; 1 2 &gt;