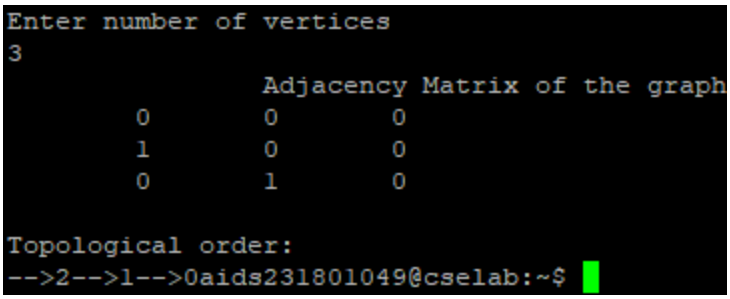
EX NO 12 PERFORMING TOPOLOGICAL SORTING

```
#include <stdio.h>

int main(){
    int i,j,k,n=6,indeg[6]={0},flag[6]={0},count=0;
    int a[6][6]={{0, 1, 0, 0, 0, 0},
        {0, 0, 1, 1, 0, 0},
        {0, 0, 0, 0, 0, 1},
        {0, 0, 0, 0, 0, 1},
        {1, 0, 0, 0, 0, 0},
        {0, 0, 0, 0, 0, 0}};
    for(i=0;i<n;i++)
    {
        for(j=0;j<n;j++)
        {
            indeg[i]=indeg[i]+a[j][i];
        }
    }
    printf("\nThe topological order is:");
    while(count<n){
        for(k=0;k<n;k++){
            if((indeg[k]==0) && (flag[k]==0)){
                printf("%d ",(k));
                flag[k]=1;
            }
            for(i=0;i<n;i++){
                if(a[i][k]==1)
                    indeg[k]--;
            }
        }
        count++;
    }

    return 0;
}
```

OUTPUT:


Enter number of vertices
3
Adjacency Matrix of the graph
0 0 0
1 0 0
0 1 0
Topological order:
-->2-->1-->0aids231801049@cselab:~$