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EX NO: 12

PROGRAM NAME: TOPOLOGICAL SORTING

```
CODE:
#include<stdio.h>
# define SIZE 7
int
0,0,1,0\},\{0,0,0,0,0,0,0\},\{0,0,0,0,0,1,0\}\};
int co;
int in[SIZE];
void tsort(){
 indegree();
 int i;
 for(int k=0;k<7;k++){
 for(i=0;i<7;i++){
   if(in[i]==0){
     break;
   }
 }
 printf("%d ",i);
 in[i]=1;
 for(int j=0;j<7;j++){
   if(G[i][j]==1){
```

```
in[j]=in[j]-1;
    }
  }
}
void indegree(){
  for(int i=0;i<7;i++){
    co=0;
    for(int j=0;j<7;j++){
      if(G[j][i]==1){
        co++;
       }
    }
    in[i]=co;
 }
}
int main(){
  tsort();
}
OUTPUT:
0123465
Process returned 0 (0x0) execution time: 0.801 s
Press any key to continue.
```