Topological order - BFS

Md. Arman Faiyaz
IBM19CS084

```
#include <stdio.h>
#void main (){
  int i, j, k, n, a[10][10], indeg[10], flag[10],
    count = 0;
  printf ("Enter the no. of vertices : \n");
scanf ("%d", &n);
    printf ("Enter the matrix : \n");
  for (i=0 ; i<n; i++){
    for (j=0; j <n; j++)
   scanf ("%d", &a[i][j]);
  }
  for (i = 0; i<n; i++){
    indeg[i] = 0;
    flag[i] = 0;
  }
  for (i=0 ; i <n; i++)
    for (j=0 ; j <n ; j++)
```

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