```
#include<stdio.h>
#include<stdlib.h>
int s[100], j, res[100];
void AdjacencyMatrix(int a[][100], int n) {
  int i, j;
  for (i = 0; i < n; i++) {
     for (j = 0; j \le n; j++) {
       a[i][j] = 0;
     }
  }
  for (i = 1; i < n; i++) {
     for (j = 0; j < i; j++) {
       a[i][j] = rand() % 2;
       a[j][i] = 0;
     }
  }
}
void dfs(int u, int n, int a[][100]) {
  int v;
  s[u] = 1;
  for (v = 0; v < n - 1; v++) {
     if (a[u][v] == 1 & s[v] == 0) {
        dfs(v, n, a);
     }
  j += 1;
  res[j] = u;
```

```
}
void topological_order(int n, int a[][100]) {
  int i, u;
  for (i = 0; i < n; i++) {
     s[i] = 0;
  }
  j = 0;
  for (u = 0; u < n; u++) {
     if (s[u] == 0) {
       dfs(u, n, a);
     }
  }
  return;
}
int main() {
  int a[100][100], n, i, j;
  printf("Enter number of vertices\n");
  scanf("%d", &n);
  AdjacencyMatrix(a, n); /*GENERATE ADJACENCY MATRIX */
  printf("\t\tAdjacency Matrix of the graph\n");
  for (i = 0; i < n; i++) {
     for (j = 0; j < n; j++) {
       printf("\t%d", a[i][j]);
     printf("\n");
  printf("\nTopological order:\n");
```

```
topological_order(n, a);

for (i = n; i >= 1; i--) {
    printf("-->%d", res[i]);
}
    return 0;
}
```