Write program to obtain the Topological ordering of vertices in a given digraph.

```
#include <stdio.h>

int n, a[10][10], res[10], s[10], top = 0;

void dfs(int, int, int[][10]);
void dfs_top(int, int[][10]);

int main() {
   int i, j;

   printf("Enter the number of nodes: ");
   scanf("%d", &n);

   printf("Enter the adjacency matrix:\n");
   for (i = 0; i < n; i++) {
      for (j = 0; j < n; j++) {
         scanf("%d", &a[i][j]);
      }
   }

   dfs_top(n, a);

   printf("Topological Sort Order: ");
   for (i = n - 1; i >= 0; i--) {
      printf("%d ", res[i]);
   }
   printf("\n");
```

```
    return 0;
}

void dfs_top(int n, int a[][10]) {
    int i;
    for (i = 0; i < n; i++) {
        s[i] = 0;
    }

    for (i = 0; i < n; i++) {
        if (s[i] == 0) {
            dfs(i, n, a);
        }
    }
}

void dfs(int j, int n, int a[][10]) {
    s[j] = 1;
    int i;
    for (i = 0; i < n; i++) {
        if (a[j][i] == 1 && s[i] == 0) {
            dfs(i, n, a);
        }
    }
    res[top++] = j;
}
```

Output

```
Enter the number of nodes: 2
Enter the adjacency matrix:
2
6

9
6
Topological Sort Order: 1 0


=== Code Execution Successful ===
```