```
main.c
```

```
1
      #include<stdio.h>
  2
      #include<stdlib.h>
 3
      int a[1][10];
      void dfs(int n, int cost[10][10], int u, int s[])
 4
 5
      {
 6
      int v;
 7
      s[u]=1;
      for(v=0; v<n; v++)
 8
 9
      {
      if((cost[u][v]==1) \&\& (s[v]==0))
10
11
     dfs(n,cost,v,s);
12
13
     }
     }
14
15
     int main()
                                                                I
16
     {
     int n,i,j,cost[10][10],s[10],con,flag;
17
18
     system("cls");
19
     printf("Enter the number of nodes\n");
20
     scanf("%d",&n);
21
     printf("Enter the adjacency matrix\n");
22
     for(i=0;i<n;i++)</pre>
23
     {
24
     for(j=0;j<n;j++)</pre>
25
     scanf("%d",&cost[i][j]);
26
27
     }
28
     con=0:
     for(j=0;j<n;j++)
29
30
     {
31
     for(i=0;i<n;i++)</pre>
32
     s[i]=0:
     dfs(n,cost,j,s);
33
34
     flag=0;
```

```
clang-7 -pthread -lm -o main main.c

/main

sh: 1: cls: not found

Enter the number of nodes

Enter the adjacency matrix

0 1 1 0

1 0 0 0

1 0 0 1

0 0 1 0

Graph is connected

The connected conn
```

```
clang-7 -pthread -lm -o main main.c
./main
sh: 1: cls: not found
Enter the number of nodes

Enter the adjacency matrix
1 0 0
0 1 0
0 0 1
Graph is not connected

*
```