

```
1: #include<stdio.h>
2: #include<stdlib.h>
3:
4: int visited[7] = {0,0,0,0,0,0,0};
5:     int A [7][7] = {
6:         {0,1,1,1,0,0,0},
7:         {1,0,1,0,0,0,0},
8:         {1,1,0,1,1,0,0},
9:         {1,0,1,0,1,0,0},
10:        {0,0,1,1,0,1,1},
11:        {0,0,0,0,1,0,0},
12:        {0,0,0,0,1,0,0}
13:    };
14:
15: void DFS(int i){
16:     printf("%d ", i);
17:     visited[i] = 1;
18:     for (int j = 0; j < 7; j++)
19:     {
20:         if(A[i][j]==1 && !visited[j]){
21:             DFS(j);
22:         }
23:     }
24: }
25:
26: int main(){
27:     // DFS Implementation
28:     DFS(0);
29:     return 0;
30: }
31:
```