31. Write a C program to Graph traversal using Breadth First Search.

```
#include <stdio.h>
int q[10], front=0, rear=-1, adj[5][5]={{0}}, visited[5]={0};
void bfs(int s) {
   q[++rear] = s; visited[s] = 1;
   while (front <= rear) {
      int u = q[front++];
      printf("%d ", u);
      for (int v = 0; v < 5; v++)
         if (adj[u][v] && !visited[v]) {
            q[++rear] = v;
            visited[v] = 1;
         }
   }
}
int main() {
   adj[0][1]=adj[0][2]=adj[1][3]=adj[2][4]=1;
   bfs(0);
   return 0;
}
```

OUTPUT