```
C topological_sorting.c ● C bfs_nodes.c X
C bfs_nodes.c
  1 /*Write a program to print all the nodes reachable from a given starting node in a digraph using the BFS method. */
      #include <stdio.h>
      int a[10][10], vis[10], n;
      void bfs(int v)
          int q[10],f=0,r=0,u,i;
          vis[v]=1;
          q[r]=v;
          while (f<=r)
              u=q[f];
              printf("%d ",(u+1));
              for (i=0;i<n;i++)
                  if (a[u][i]==1 && vis[i]==0)
                      vis[i]=1;
                      r=r+1;
                      q[r]=i;
              f=f+1;
      int main()
          int i,j,src;
          printf("Enter the number of vertices:\n");
          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]);
          for (i=0:i<n:i++)
```

```
C topological_sorting.c ● C bfs_nodes.c ×
C bfs_nodes.c
     int main()
          int i,j,src;
          printf("Enter the number of vertices:\n");
          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]);
          for (i=0;i<n;i++)
              vis[i]=0;
          printf("Enter the source vertex:\n");
          scanf("%d",&src);
          printf("Nodes reachable from %d vertex are:\n",src);
          bfs(src-1);
          return 0;
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL



