**Output:**

PS D:\Coding\College-code-sem4\DSAL> g++ .\dsal\_c13\_bfs\_dsf.cpp; ./a.exe

Enter the number of vertices: 7

Enter number of edges: 11

Enter the vertices of the edge: 0 1

Enter the vertices of the edge: 3 1

Enter the vertices of the edge: 5 1

Enter the vertices of the edge: 2 1

Enter the vertices of the edge: 3 2

Enter the vertices of the edge: 5 2

Enter the vertices of the edge: 6 2

Enter the vertices of the edge: 3 2

Enter the vertices of the edge: 4 3

Enter the vertices of the edge: 4 5

Enter the vertices of the edge: 6 1

Adjacency List Representation is :

0->1

1->0->3->5->2->6

2->1->3->5->6->3

3->1->2->2->4

4->3->5

5->1->2->4

6->2->1

Matrix Representation is :

0 1 0 0 0 0 0

1 0 1 1 0 1 1

0 1 0 1 0 1 1

0 1 1 0 1 0 0

0 0 0 1 0 1 0

0 1 1 0 1 0 0

0 1 1 0 0 0 0

Enter the starting vertex for BFS: 0

BFS: 0 1 3 5 2 6 4

Enter the starting vertex for DFS: 0

DFS: 0 1 6 5 4 3 2

PS D:\Coding\College-code-sem4\DSAL>