```
1 #include <iostream>
 2 #include <vector>
3 #include <queue>
5 using namespace std;
6
7 #define MAX 10000
8
9 bool visited[MAX];
10
11 void dfs(vector<vector<int>> n, int node)
12 {
13
       for (int neighbuor : n[node])
14
15
16
           if (!visited[neighbuor])
17
18
                dfs(n, neighbuor);
19
20
21
       visited[node] = true;
22
       cout << node << ' ';</pre>
23 }
24
25 void bfs(vector<vector<int>> v)
26 {
27
28
       queue<int> q;
29
       int start = 0;
30
       q.push(start);
31
       visited[start] = true;
32
33
        while (!q.empty())
34
35
           int first = q.front();
36
           cout << first << ' ';</pre>
37
           for (int n : v[first])
38
39
                if (!visited[n])
40
41
                    q.push(n);
42
                    visited[n] = 1;
43
44
45
           q.pop();
46
47
48
49 int main()
50 {
51
        int n;
52
       cout << "Enter how many node you have : ";</pre>
53
54
       cin >> n;
55
       vector<vector<int>> v;
56
57
       for (int i = 0; i < n; i++)</pre>
58
59
60
            vector<int> n;
61
            cout << "Enter how many neighbour for node " << i << " : ";</pre>
62
63
           int neighbour;
64
           cin >> neighbour;
65
66
            for (int j = 0; j < neighbour; j++)</pre>
```

```
int val;
cin >> val;
n.push_back(val);
}
67
68
69
70
71

v.push_back(n);
}
72
73
74
75
       dfs(v, 0);
77 bfs(v);
78 ret
76
        return 0;
79 }
```