COMPUTER NETWORKS LAB - 8 CS20B1107, SRIRAM REDDY CHEERLA

1. Code:

```
#include <bits/stdc++.h>
using namespace std;
// defining the number of vertices
#define numOfVertices 4
#define INF 999
void printMat(int mat[][numOfVertices]);
```

```
void printMat(int mat[][numOfVertices])
int main()
```

Output:

```
sriram CN % g++ cn_lab8.cpp
sriram CN % ./a.out
 Enter the vertices edges from each node
 Enter for node 1
 0 2 0 1
 Enter for node 2
 2 0 3 7
 Enter for node 3
 0 3 0 11
 Enter for node 4
 1 7 11 0
 Level 0
          2
     0
                     1
              0
     2
               3
                    7
          0
     0
          3
              0
                    11
     1
          7
              11
                     0
     0
          2
               0
                     1
     2
               2
          0
                     3
          3
     0
               0
                    11
          7
     1
              11
                     0
     0
          2
                     1
               0
     2
          0
               2
                     3
     0
          2
               0
                     1
          7
              11
                     0
          2
                     1
     0
               0
     2
          0
               2
                     3
     0
          2
               0
                     1
          3
     1
                1
                     0
 Level 1
     0
          2
               0
                     1
     2
          0
               2
                     3
          2
     0
                0
                     1
```

0	2	0	1
2	0	2	3
0	2	0	1
1	3	1	0
0	2	0	1
2	0	2	3
0	2	0	1
1	3	1	0
Level 2 0 2 0 1	2 2 0 2 2 3	0 2 0 1	1 3 1 0
0	2	0	1
2	0	2	3
0	2	0	1
1	3	1	0
0	2	0	1
2	0	2	3
0	2	0	1
1	3	1	0
0	2	0	1
2	0	2	3
0	2	0	1
1	3	1	0
Level 3 0 2 0 1	3 2 0 2 2 3	0 2 0 1	1 3 1 0

1

a

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```
2
                     0
    0
2
0
                             1
3
1
             0
                     2
             2
                     0
             3
    1
                     1
                             0
    0
2
            2
                     0
                             1
3
1
0
                     2
            0
2
3
    0
1
                     0
1
    0
2
            2
                     0
                             1
                             3
1
           0
                     2
0 2 0
1 3 1
sriram CN 🔏 🗍
                     0
                    1
                             0
```