

```

scanf("%d", &n);
printf("Enter adjacency matrix");
for (int i = 0; i < n; i++) {
    for (j = 0; j < n; j++) {
        scanf("%d", &a[i][j]);
    }
}

```

```

for (source = 0; source < n; source++) {
    bfs(a, n, source);
}

```

```

return 0;
}

```

Enter no. of vertices : 4

Enter adjacency matrix:

0	1	1	0
1	0	1	0
1	1	0	1
0	0	1	0

The nodes visited from 0 : 0 1 2 3

The nodes visited from 1 : 1 0 2 3

The nodes visited from 2 : 2 0 1 3

The nodes visited from 3 : 3 0 0 1

dfs:

```

#include <stdio.h>
#include <stdlib.h>

```

```

void dfs(int a[10][10], int n, int u,
        int visited[]) {

```

```

int v;
printf ( " %d ", u );
visited [u] = 1;
for ( v=0; v<n; v++ ) {
    if ( a[u][v] == 1 && !visited [v] ) {
        dfs ( a, n, v, visited );
    }
}
}
}
}

```

```

int main() {
    int n, a[10][10], source, i, j;
    int visited [10] = {0};
    printf ( " Enter the no. of vertices : " );
    scanf ( " %d ", &n );

```

```

    printf ( " Enter adjacency matrix. " );
    for ( i=0; i<n; i++ ) {
        for ( j=0; j<n; j++ ) {
            scanf ( " %d ", &a[i][j] );
        }
    }
}

```

```

    printf ( " DFS traversal " );
    for ( source = 0; source < n; source++ ) {
        if ( !visited [source] ) {
            dfs ( a, n, source, visited );
        }
    }
}
}

```

Input: Enter no. of vertices: 4  
 Enter adjacency matrix: 
 

0	1	1	0	1	0	1	0
1	1	0	1	0	0	1	0

DFS traversal: 0 1 2 3

```
int findBottomLeftValue (struct tnode TreeNode* root)
{
    int ans = root->val;
    int maxlev = 0;
    f (root, 0, &ans, &maxlev);
    return ans;
}
```

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