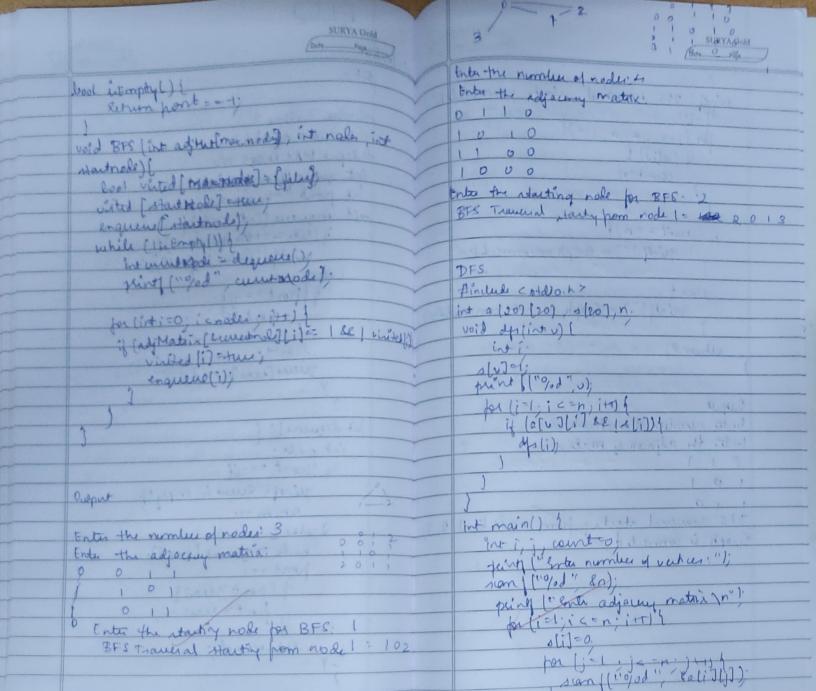
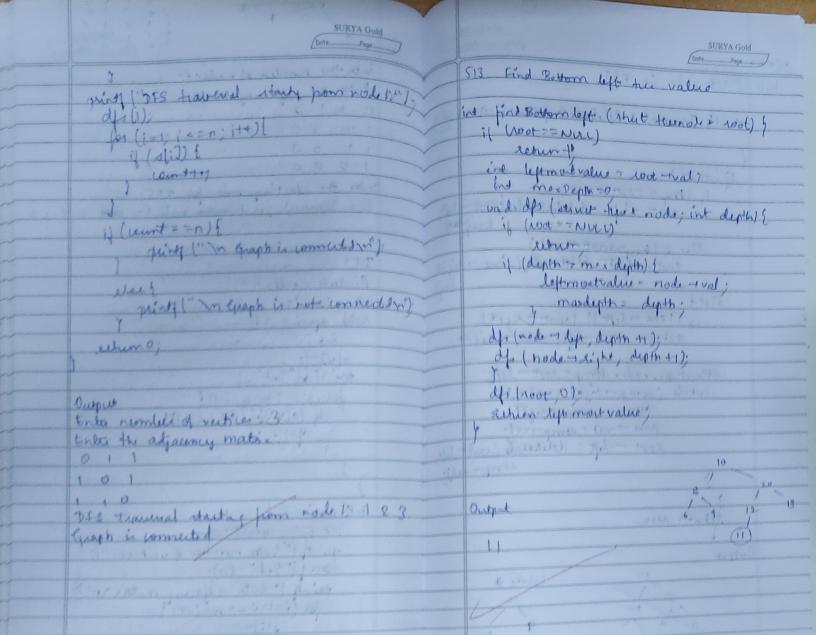
1 2 SURYA Gold 16/02/14 BFS Hinclude < Adio. h > Dindude Cotdbool. L7 int queue [Max Nodu] int pont = 1, rear = 1; void inquere (int node) { if (Rear = = MAX NODES -1) (print (" guen in pulis") else la returne quem [rear] - nude; int dequeure () & int nod; print ("queu is emply"). node = queue [hont] hont +17 if (hont > lean) { setum node;



Enter the number of nodes: 4
Enter the adjacency matrix:
0 1 1 0
1 0 1 1

1 1 0 1 0 1 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 1 2 0



SURYA Gold 260004 450 Pelete node in BST. struct Trunder deleberrade (struct treeral, if (key & soot - val) evot -left = delate Node (2001 -left else i (key sloot oval) Root-right deletnode (root right if [1200+ slept 1] [200+ 7 6, 24) ethen woot-lift = anot - right Stewer fee rode - temp = root - left; while (temp - light 1= NULL) tempo sumporight 300t 7 val = temporval; Soot - left = deleterode (root - left) Output

Enter number of vertices: 4 Enter the adjacency matrix: 0110 1001 1001 0 1 1 0 Graph is connected

```
#include <stdio.h>
\existsvoid bfs(int a[10][10], int n, int u) {
 int f = 0, r = -1, g[10] = \{0\}, v, s[10] = \{0\};
 printf ("The nodes visited from %d: ", u);
 q[++r] = u;
 s[u] = 1;
printf("%d ", u);
while (f <= r) {
 u = q[f++];
for (v = 0; v < n; v++) {
\existsif (a[u][v] == 1 && s[v] == 0) {
printf("%d ", v);
s[v] = 1;
q[++r] = v;
printf("\n");
-int main() {
 int n, a[10][10], source, i, j;
printf("\nEnter the number of nodes: ");
scanf("%d", &n);
printf("\nEnter the adjacency matrix:\n");
= for (i = 0; i < n; i++) {
for (j = 0; j < n; j++) {
 scanf("%d", &a[i][j]);
```

```
q[++r] = u;
s[u] = 1;
printf("%d ", u);
while (f <= r) (
u = q[f++];
for (v = 0; v < n; v++) {
= if (a[u][v] == 1 && s[v] == 0) {
printf("%d ", v);
s[v] = 1;
q[++r] = v;
printf("\n");
- }
int main() (
int n, a[10][10], source, i, j;
printf("\nEnter the number of nodes: ");
scanf("%d", &n);
printf("\nEnter the adjacency matrix:\n");
for (i = 0; i < n; i++) {
for (j = 0; j < n; j++) {
scanf("%d", &a[i][i]);
for (source = 0; source < n; source++) {
bfs(a, n, source);
return 0;
```

```
#define MAX SIZE 100
int n;
int a[MAX SIZE][MAX SIZE];
int s[MAX SIZE];
void dfs(int v) {
s[v] = 1;
for (int i = 1; i <= n; i++) {
if (a[v][i] && !s[i]) {
dfs(i);
int main() {
int i, j, count = 0;
printf("\nEnter number of vertices: ");
scanf("%d", &n);
for (i = 1; i <= n; i++) {
s[i] = 0;
for (j = 1; j \le n; j++) {
a[i][j] = 0;
printf("Enter the adjacency matrix:\n");
\exists for (i = 1; i <= n; i++) {
for (j = 1; j \le n; j++) {
scanf("%d", &a[i][j]);
dfs(1);
for (i = 1; i <= n; i++) {
if (s[i]) {
count++;
```

```
if (a[v][i] && !s[i]) {
dfs(i);
int main() (
int i, j, count = 0;
printf("\nEnter number of vertices: ");
scanf("%d", &n);
for (i = 1; i <= n; i++) {
s[i] = 0;
for (j = 1; j \le n; j++) {
a[i][j] = 0;
- }
- }
printf("Enter the adjacency matrix:\n");
for (i = 1; i <= n; i++) {
for (j = 1; j <= n; j++) {
scanf("%d", &a[i][j]);
- }
dfs(1);
for (i = 1; i \le n; i++)
if (s[i]) {
count++;
- }
if (count == n) {
printf("Graph is connected\n");
} else {
printf("Graph is not connected\n");
return 0;
```

```
513. Find Bottom Left Tree Value
 Medium O Topics & Companies
Given the root of a binary tree, return the leftmost value in the last row of the tree.
Example 1:
                                                                                                             int findBottomLeftValue(struct TreeNode* root) {
                                                                                                                 int value=root->val:
                                                                                                                 int mdepth=0:
                                                                                                              void transverse(struct TreeNode* p,int depth)(
                                                                                                                 if(|p)
                                                                                                                 if(depth>mdepth){
                                                                                                                 mdepth=depth;
                                                                                                                 value=p->val;
  Input: root = [2,1,3]
                                                                                                                 transverse(p->left,depth+1);
                                                                                                                 transverse(p->right, depth+1);
  Output: 1
                                                                                                         24 }
                                                                                                         25 transverse(root,θ);
Example 2:
                                                                                                         26 return value;
```

C++ V * Auto

Q () 5

Accepted Runtime: 3 ms

• Case 1

Case 2

Input

Output

16

Expected

1

Accepted Runtime: 3 ms

- Case 1
- Case 2

Input

root = [1,2,3,4,null,5,6,null,null,7]

Output

7

Expected

30 return root;

```
5 5 6 5 6 6
```

