32.

```
#include <stdio.h>
void dfs(int adj[10][10], int n, int v, int visited[]) {
    visited[v] = 1;
    printf("%d ", v);
    for (int i = 0; i < n; i++)
        if (adj[v][i] && !visited[i])
            dfs(adj, n, i, visited);
}
int main() {
    int adj[10][10], n, visited[10] = {0};
    printf("Enter number of vertices: ");
    scanf("%d", &n);
    printf("Enter adjacency matrix:\n");
    for (int i = 0; i < n; i++)
        for (int j = 0; j < n; j++)
            scanf("%d", &adj[i][j]);
    printf("DFS traversal: ");
    dfs(adj, n, 0, visited);
    return 0;
}
```

```
Enter number of vertices: 3
Enter adjacency matrix:
1 2 3
4 5 6
7 8 9
DFS traversal: 0 1 2
```