

Aim:

To verify whether a path exists between given nodes.

Algorithm:

1. Represent graph with adjacency matrix.
2. Traverse path array.
3. Check connection between each pair.

Code:

```
#include <stdio.h>

int main() {
    int g[3][3] = {{0,1,0}, {1,0,1}, {0,1,0}};
    int path[] = {0, 1, 2};
    int valid = 1;
    for(int i = 0; i < 2; i++)
        if(!g[path[i]][path[i+1]]) valid = 0;
    printf(valid ? "Valid path\n" : "Invalid path\n");
    return 0;
}
```

Input:

Path: 0 -> 1 -> 2

Output:

Valid path

Result:

Path verification successful.