```
#include <stdio.h>
#include <stdlib.h>
#include <stdbool.h>
#include <time.h>
#define N 50
int grid[N][N];
bool visited[N][N];
int dx[] = {-1, 1, 0, 0}; // gore, dole, levo, desno
int dy[] = \{0, 0, -1, 1\};
bool found = false;
void dfs(int x, int y) {
 if (x < 0 || y < 0 || x >= N || y >= N || visited[x][y] || grid[x][y] == 1)
   return;
 visited[x][y] = true;
 if (grid[x][y] == 3) {
   found = true;
   return;
 for (int i = 0; i < 4; i++) {
   dfs(x + dx[i], y + dy[i]);
```

```
int main() {
 srand(time(NULL));
 // Inicijalizacija na nule
 for (int i = 0; i < N; i++)
   for (int j = 0; j < N; j++)
      grid[i][j] = 0;
 // Random pozicije za 1, 2, 3
 for (int i = 0; i < 500; i++) {
   int x = rand() \% N;
   int y = rand() % N;
   grid[x][y] = 1;
 int x2 = rand() % N;
 int y2 = rand() % N;
 grid[x2][y2] = 2;
 int x3 = rand() % N;
 int y3 = rand() \% N;
 grid[x3][y3] = 3;
 // Prikaz table
 for (int i = 0; i < N; i++) {
```

```
for (int j = 0; j < N; j++)
    printf("%d ", grid[i][j]);
printf("\n");
}

// DFS pretraga
dfs(x2, y2);

if (found)
    printf("Put postoji.\n");
else
    printf("Put NE postoji.\n");</pre>
```