```
package day16_17;
public class RatInMaze {
      int[] pathRow = { 0 , 0 , 1 ,-1};
      int[] pathCol = { 1, -1, 0, 0};
      private void findPathInMaze(int[][] maze, int[][] visited, int row, int col, int
destRow, int destCol, int move) {
             if (row == destRow && col ==destCol) {
                    for (int i = 0; i < 4; i++) {
                           for (int j = 0; j < 4; j++) {</pre>
                                 System.out.printf("%2d ",visited[i][j]);
                           System.out.println();
                    System.out.println("************");
             } else {
                    for (int index = 0; index < pathRow.length; index++) {</pre>
                           int rowNew = row + pathRow[index];
                           int colNew = col + pathCol[index];
                           if(isValidMove(maze, visited, rowNew, colNew)) {
                                 move++;
                                 visited[rowNew][colNew] =move;
                                 findPathInMaze(maze, visited, rowNew, colNew,
destRow,destCol, move);
                                 move--;
                                 visited[rowNew][colNew]=0;
                           }
                    }
             }
      }
      private boolean isValidMove(int[][] maze, int[][] visited, int rowNew, int colNew) {
             return (rowNew >=0 && rowNew <4 && colNew>=0 && colNew<4 &&
maze[rowNew][colNew] ==1 && visited[rowNew][colNew] == 0);
      public static void main(String[] args) {
             int[][] maze = {
                           {1,0,1,1},
                           \{1,1,1,1\},
                           \{0,0,0,1\},\
                           \{1,1,1,1\}
             };
             int[][] visited = new int[4][4];
             visited[0][0] = 1;
             RatInMaze ratInMaze = new RatInMaze();
             ratInMaze.findPathInMaze(maze, visited, 0 ,0 ,3,3, 1);
```

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}
}
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                                                                                                                         □<u>□</u>- (
                           move--;
visited[rowNew][colNew]=0;
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          private boolean isValidMove(int[][] maze, int[][] visited, int rowNew, int colNew) {
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               return (rowNew >=0 && rowNew <4 && colNew>=0 && colNew<4 && maze[rowNew][colNew] ==1 && visited
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          public static void main(String[] args) {
              };
int[][] visited = new int[4][4];
visited[0][0] = 1;
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               RatInMaze ratInMaze = new RatInMaze();
ratInMaze.findPathInMaze(maze, visited, 0 ,0 ,3,3, 1);
 <terminated> RatInMaze [Java Application] C:\Users\Nikita\.p2\pool\plugins\org.eclipse.justj.openjdk.hotspot.jre.full.win32.x86_64_16.0.2.v20210721-1149\jr
  0 0 0 6
 0 0 0 7
  1 0 5 6
  2 3 4 7
  0 0 0 8
 0 0 0 9
```