1.

```
∝ Share Run
main.py
                                    [] 🔅
                                                                       Output
                                                                                                                                   Clear
2 def findPaths(m, n, N, i, j):
      dp = [[0] * n for _ in range(m)]
                                                                      === Code Execution Successful ===
       dp[i][j] = 1
result = 0
          for steps in range(N):
           temp = [[0] * n for _ in range(m)]
           for r in range(m):
              for c in range(n):
                  if dp[r][c] > 0:
                         result = (result + dp[r][c]) % MOD
                         temp[r-1][c] = (temp[r-1][c] + dp[r][c]
) % MOD
                          result = (result + dp[r][c]) % MOD
                           temp[r+1][c] = (temp[r+1][c] + dp[r][c]
                          result = (result + dp[r][c]) % MOD
```

3.

5.

```
main.py
                                     [] 🔆 📽 Share Run
                                                                         Output
                                                                                                                                        Clear
                                                                      [0, 0, 0]
1 - def gameOfLife(board):
                                                                       [1, 0, 1]
[0, 1, 1]
       if not board:
       [0, 1, 0]
                                                                        === Code Execution Successful ===
       for r in range(rows):
           for c in range(cols):
              live_neighbors = 0
                  nr, nc = r + dr, c + dc
if 0 <= nr < rows and 0 <= nc < cols:
    live_neighbors += board[nr][nc]</pre>
               if board[r][c] == 1:
                  if live_neighbors < 2:
                      next_state[r][c] = 0
                   elif live_neighbors <= 3:</pre>
                      next_state[r][c] = 1
                       next_state[r][c] = 0
                   if live neighbors == 3:
```

```
[] ×
                                                    ∝ Share
                                                                                                                                                   Clea
                                                                                Output
 1 - def champagneTower(poured, query_row, query_glass):
        tower = [[0] * k for k in range(1, 102)]
tower[0][0] = poured
                                                                              === Code Execution Successful ===
        for r in range(query_row):
            for c in range(r + 1):

overflow = (tower[r][c] - 1.0) / 2.0
                 if overflow > 0
                   tower[r + 1][c] += overflow
tower[r + 1][c + 1] += overflow
     return min(1, tower[query_row][query_glass])
11 poured = 1
12 query_row = 1
13 query_glass = 1
14 print(champagneTower(poured, query_row, query_glass))
```