136. Given an m x n grid and a ball at a starting cell, find the number of ways to move the ball out of the grid boundary in exactly N steps.

Example:

```
Input: m=2,n=2,N=2,i=0,j=0 · Output: 6
Input: m=1,n=3,N=3,i=0,j=1 · Output: 12
```

AIM: To find then path

PROGRAM:

```
def findPaths(m, n, N, i, j):
    MOD = 10**9 + 7
    dp = [[0] * n for _ in range(m)]
    dp[i][j] = 1
    directions = [(0, 1), (1, 0), (0, -1), (-1, 0)]
    count = 0
    for _ in range(N):
        temp = [[0] * n for _ in range(m)]
        for r in range(m):
            for c in range(n):
                for dr, dc in directions:
                    nr, nc = r + dr, c + dc
                    if 0 <= nr < m and 0 <= nc < n:
                        temp[nr][nc] = (temp[nr][nc] + dp[r][c]) % MOD
                        count = (count + dp[r][c]) % MOD
        dp = temp
    return count
print(findPaths(2, 2, 2, 0, 0)
print(findPaths(1, 3, 3, 0, 1))
         6
         12
OUTPUT:
TIME COMPLEXITY: O( m*n*N)
```