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main.py

Run

Output

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```
1 def findPaths(m, n, N, i, j):
2     MOD = 10**9 + 7
3     dp = [[[0] * n for _ in range(m)] for _ in range(N + 1)]
4     directions = [(0, 1), (0, -1), (1, 0), (-1, 0)]
5
6     for step in range(1, N + 1):
7         for x in range(m):
8             for y in range(n):
9                 for dx, dy in directions:
10                     nx, ny = x + dx, y + dy
11                     if nx < 0 or nx >= m or ny < 0 or ny >= n:
12                         dp[step][x][y] += 1
13                     else:
14                         dp[step][x][y] = (dp[step][x][y] + dp[step -
15                                     1][nx][ny]) % MOD
16
17     return dp[N][i][j]
18
19 m = 2
20 n = 2
21 N = 2
22 i = 0
23 j = 0
24 output = findPaths(m, n, N, i, j)
25 print(output)
```

6
=== Code Execution Successful ===

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```
1 def rob(nums):
2     if len(nums) == 1:
3         return nums[0]
4
5     def rob_linear(houses):
6         prev, curr = 0, 0
7         for money in houses:
8             prev, curr = curr, max(prev + money, curr)
9         return curr
10
11     return max(rob_linear(nums[:-1]), rob_linear(nums[1:]))
12 nums = [2, 3, 2]
13 print(f"The maximum money you can rob without alerting the police is {rob(nums)}
14     (robbing house 1).")
```

Output

Clear

The maximum money you can rob without alerting the police is 3 (robbing house 1).

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Output

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```
1 def climbStairs(n):
2     if n == 1:
3         return 1
4     first, second = 1, 2
5     for i in range(3, n + 1):
6         third = first + second
7         first = second
8         second = third
9     return second
10 n = 4
11 print(climbStairs(n))
```

```
5
=== Code Execution Successful ===
```

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Output

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```
1 def uniquePaths(m, n):
2     dp = [[1] * n for _ in range(m)]
3     for i in range(1, m):
4         for j in range(1, n):
5             dp[i][j] = dp[i - 1][j] + dp[i][j - 1]
6     return dp[m - 1][n - 1]
7
8
9 m = 7
10 n = 3
11 print(uniquePaths(m, n))
12
```

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=== Code Execution Successful ===

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Output

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```
1 def large_group_intervals(s):
2     intervals = []
3     start = 0
4
5     for i in range(1, len(s)):
6         if s[i] != s[i - 1]:
7             if i - start >= 3:
8                 intervals.append([start, i - 1])
9                 start = i
10
11     if len(s) - start >= 3:
12         intervals.append([start, len(s) - 1])
13
14     return intervals
15
16
17 print(large_group_intervals("abbxxxxzzy"))
18
19
```

```
[[3, 6]]

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```
1 def game_of_life(board):
2     if not board:
3         return
4     rows, cols = len(board), len(board[0])
5     directions = [(-1, -1), (-1, 0), (-1, 1), (0, -1), (0, 1), (1, -1), (1, 0), (1, 1)]
6     copy_board = [row[:] for row in board]
7     for r in range(rows):
8         for c in range(cols):
9             live_neighbors = sum((0 <= r + dr < rows and 0 <= c + dc < cols and abs(copy_board[r + dr][c + dc]) == 1) for dr, dc in directions)
10
11             if copy_board[r][c] == 1 and (live_neighbors < 2 or live_neighbors > 3):
12                 board[r][c] = 0
13             elif copy_board[r][c] == 0 and live_neighbors == 3:
14                 board[r][c] = 1
15 board = [[0, 1, 0], [0, 0, 1], [1, 1, 1], [0, 0, 0]]
16 game_of_life(board)
17 print(board)
```

```
[[0, 0, 0], [1, 0, 1], [0, 1, 1], [0, 1, 0]]

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main.py Run Output Clear

```
1 def champagneTower(poured: int, query_row: int, query_glass: int) -> float:
2     dp = [[0] * (i + 1) for i in range(query_row + 1)]
3     dp[0][0] = poured
4
5     for i in range(query_row):
6         for j in range(i + 1):
7             if dp[i][j] > 1:
8                 excess = dp[i][j] - 1
9                 dp[i][j] = 1
10                dp[i + 1][j] += excess / 2
11                dp[i + 1][j + 1] += excess / 2
12
13     return min(1, dp[query_row][query_glass])
14
15 result = champagneTower(1, 1, 1)
16 print(f"{result:.5f}")
17
```

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=== Code Execution Successful ===

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