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main.py

Run

Output

Clear

```
1 m = 2
2 n = 2
3 N = 2
4 i = 0
5 j = 0
6 dp = [[0] * n for _ in range(m)] for _ in range(N + 1)
7 for k in range(1, N + 1):
8     for r in range(m):
9         for c in range(n):
10            dp[k][r][c] = (
11                (1 if r == 0 else dp[k - 1][r - 1][c]) + (1 if r == m -
1                else dp[k - 1][r + 1][c]) + (1 if c == 0 else
12                dp[k - 1][r][c - 1]) + (1 if c == n - 1 else dp[k -
13                1][r][c + 1]))
14 result = dp[N][1][1]
15 print(result)
```

6

--- Code Execution Successful ---

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```
1 nums=[2,3,2]
2 if(len(nums)--1):
3     print("max money you can rob without alerting police:",nums[0])
4 else:
5     prev1_case1=0
6     prev2_case1=0
7     for money in nums[:-1]:
8         current_case1=max(prev1_case1,prev2_case1+money)
9         prev2_case1=prev1_case1
10        prev1_case1=current_case1
11    prev1_case2=0
12    prev2_case2=0
13    for money in nums[1:]:
14        current_case2=max(prev1_case2,prev2_case2+money)
15        prev2_case2=prev1_case2
16        prev1_case2=current_case2
17    max_money=max(prev1_case1,prev1_case2)
18    print("max money u can rob without alerrting police:",max_money)
```

Output

Clear

max money u can rob without alerrting police: 3

--- Code Execution Successful ---

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Run

```
1 n=4
2 if(n==0):
3     print("number of ways to climb top:1")
4 elif(n==1):
5     print("number of ways to climb top:1")
6 else:
7     zero_step=1
8     first_step=1
9     total_ways=0
10    for i in range(2,n+1):
11        total_ways=zero_step+first_step
12        zero_step=first_step
13        first_step=total_ways
14 print("number of ways to climb tops:",total_ways)
```

Output

Clear

number of ways to climb tops: 5
--- Code Execution Successful ---

JS

GO

php

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




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JS
GO
php

main.py

ShareRun

```
1 m=7
2 n=3
3 dp=[[1]*n for _ in range(m)]
4 for i in range(1,m):
5     for j in range(1,n):
6         dp[i][j]=dp[i-1][j]+dp[i][j-1]
7 print("number of unique paths:",dp[m-1][n-1])
8
```

Output

Clear

```
number of unique paths: 28
--- Code Execution Successful ---
```

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main.py

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Run

```
1 s="abbxxxxzy"
2 result=[]
3 start=0
4 for i in range(1,len(s)+1):
5     if(i==len(s) or s[i]!=s[start]):
6         if(i-start>=3):
7             result.append([start,i-1])
8             start=i
9 print("large group intervals:",result)
10
```

Output

Clear

large group intervals: [[3, 6]]

--- Code Execution Successful ---

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main.py

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Run

```
1 board = [[0, 1, 0], [0, 0, 1], [1, 1, 1], [0, 0, 0]]
2 rows, cols = len(board), len(board[0])
3 directions = [(-1, -1), (-1, 0), (-1, 1), (0, -1), (0, 1), (1, -1),
  (1, 0), (1, 1)]
4 new_board = [[board[r][c] for c in range(cols)] for r in range(rows)
  ]
5 for r in range(rows):
6     for c in range(cols):
7         live_neighbours = 0
8         for dr, dc in directions:
9             nr, nc = r + dr, c + dc
10            if 0 <= nr < rows and 0 <= nc < cols and board[nr][nc]
              == 1:
11                live_neighbours += 1
12            if live_neighbours < 2 or live_neighbours > 3:
13                new_board[r][c] = 0
14        else:
15            if live_neighbours == 3:
16                new_board[r][c] = 1
17 for r in range(rows):
18     for c in range(cols):
19         board[r][c] = new_board[r][c]
```

Output

Clear

Next state:

[0, 0, 0]

[1, 0, 1]

[0, 1, 0]

[0, 1, 0]

=== Code Execution Successful ===

JS

GO

php


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










main.py



Run

```
1 poured=2
2 query_row=1
3 query_glass=1
4 tower=[[0.0]*(r+1) for r in range(100)]
5 tower[0][0]=poured
6 for r in range(99):
7     for c in range(r+1):
8         if(tower[r][c]>1):
9             excess=(tower[r][c]-1)/2.0
10            tower[r][c]=1
11            tower[r+1][c]+=excess
12            tower[r+1][c+1]+=excess
13 result=min(1, tower[query_row][query_glass])
14 print(f"the glass at row{query_row},glass{query_glass} contains
    :{result:.6f}cups of champagne")
```

Output

Clear

the glass at row1,glass1 contains:0.500000cups of champagne

--- Code Execution Successful ---