

Top 50+ Python Interview Que...Python - Uppercase Half StringDP Ball Out of Grid438mzvb8q - Python - OneCom...prasad2023222/DAA-CSA0635

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main.py438mzvb8qAI NEW PYTHON RUN

```
1 def findPaths(m, n, N, i, j, memo=None):
2     if memo is None:
3         memo = {}
4     if i < 0 or i >= m or j < 0 or j >= n:
5         return 1
6     if N == 0:
7         return 0
8     if (i, j, N) in memo:
9         return memo[(i, j, N)]
10
11     mod = 10**9 + 7
12     ways = (findPaths(m, n, N-1, i-1, j, memo) +
13            findPaths(m, n, N-1, i+1, j, memo) +
14            findPaths(m, n, N-1, i, j-1, memo) +
15            findPaths(m, n, N-1, i, j+1, memo))
16
17     memo[(i, j, N)] = ways % mod
18     return memo[(i, j, N)]
19
20 print(findPaths(2, 2, 2, 0, 0))
21 print(findPaths(1, 3, 3, 0, 1))
22
```

STDIN

Input for the program (Optional)

Output:

6
12

NIFTY
-0.69%

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```
1 def rob_linear(nums):
2     prev, curr = 0, 0
3     for num in nums:
4         prev, curr = curr, max(curr, prev + num)
5     return curr
6
7 def rob(nums):
8     if len(nums) == 1:
9         return nums[0]
10    return max(rob_linear(nums[:-1]), rob_linear(nums[1:]))
11
12 print(rob([2, 3, 2]))
13 print(rob([1, 2, 3, 1]))
14
```

STDIN

Input for the program (Optional)

Output:

3
4

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```
1 def climbStairs(n):
2     a, b = 1, 1
3     for _ in range(n):
4         a, b = b, a + b
5     return a
6
7 print(climbStairs(4))
8 print(climbStairs(3))
9
```

STDIN

Input for the program (Optional)

Output:

```
5
3
```

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AI NEW PYTHON RUN

```
1 from math import comb
2
3 def uniquePaths(m, n):
4     return comb(m + n - 2, m - 1)
5
6 print(uniquePaths(7, 3))
7 print(uniquePaths(3, 2))
8
```

STDIN

Input for the program (Optional)

Output:

28
3

29°C Haze

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AI NEW PYTHON RUN

def largeGroupPositions(s):
 res = []
 i = 0
 while i < len(s):
 j = i
 while j < len(s) and s[j] == s[i]:
 j += 1
 if j - i >= 3:
 res.append([i, j - 1])
 i = j
 return res

print(largeGroupPositions("abbxxxxzzy"))
print(largeGroupPositions("abc"))

STDIN
Input for the program (Optional)

Output:
[[3, 6]]
[]

29°C Haze

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AI NEW PYTHON RUN

```
1 def gameOfLife(board):
2     m, n = len(board), len(board[0])
3     directions = [(-1, -1), (-1, 0), (-1, 1), (0, -1), (0, 1), (1, -1), (1, 0), (1, 1)]
4
5     for i in range(m):
6         for j in range(n):
7             live_neighbors = sum(board[x][y] & 1 for dx, dy in directions if 0 <= (x := i + dx) < m and 0 <= (y
8             if board[i][j] == 1 and 2 <= live_neighbors <= 3:
9                 board[i][j] |= 2
10            if board[i][j] == 0 and live_neighbors == 3:
11                board[i][j] |= 2
12
13    for i in range(m):
14        for j in range(n):
15            board[i][j] >>= 1
16
17    board1 = [[0,1,0],[0,0,1],[1,1,1],[0,0,0]]
18    gameOfLife(board1)
19    print(board1)
20
21    board2 = [[1,1],[1,0]]
22    gameOfLife(board2)
23    print(board2)
24
```

STDIN

Input for the program (Optional)

Output:

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

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2.61%

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PYTHON

RUN

```
1 def champagneTower(poured, query_row, query_glass):
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             overflow = max(0, (dp[i][j] - 1) / 2)
8             if overflow > 0:
9                 dp[i + 1][j] += overflow
10                dp[i + 1][j + 1] += overflow
11
12     return min(1, dp[query_row][query_glass])
13
14 print(champagneTower(1, 1, 1)) # Output: 0.00000
15 print(champagneTower(2, 1, 1)) # Output: 0.50000
16
```

STDIN

Input for the program (Optional)

Output:

0
0.5

SUNPHARMA
-1.14%

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