130)Champagne tower

CODE:

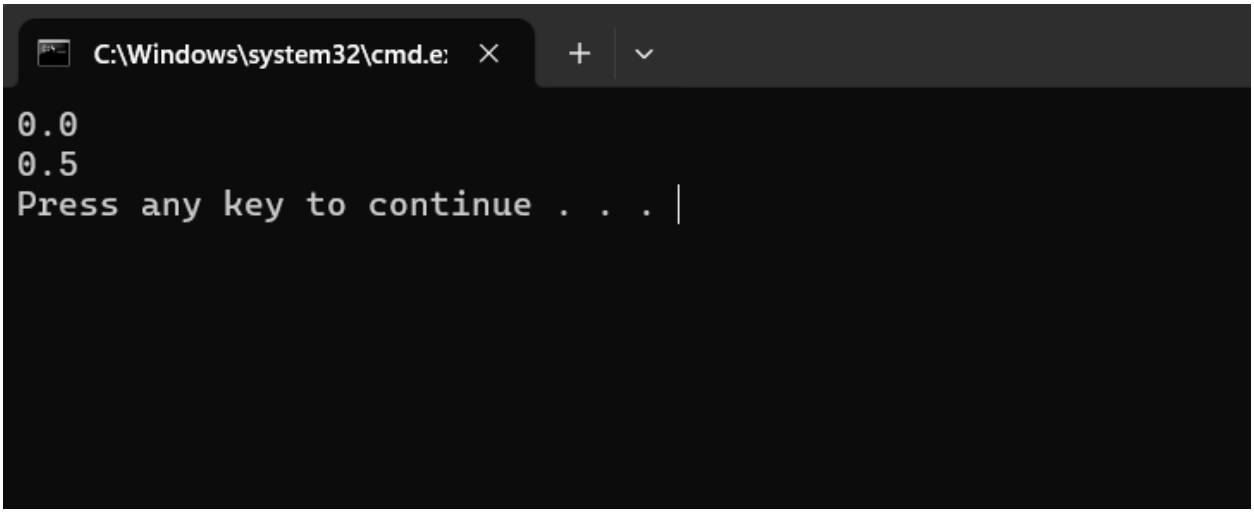
```
def champagneTower(poured, query_row, query_glass):
    tower = [[0.0] * (i + 1) for i in range(101)]
    tower[0][0] = poured

    for i in range(query_row):
        for j in range(i + 1):
            q = (tower[i][j] - 1.0) / 2.0
            if q > 0:
                tower[i + 1][j] += q
                tower[i + 1][j + 1] += q

    return min(1.0, tower[query_row][query_glass])

# Test cases
print(champagneTower(1, 1, 1))  # Output: 0.0
print(champagneTower(2, 1, 1))  # Output: 0.5
```

OUTPUT:



TIME COMPLEXITY : O(n2)