

## def generate(numRows: int) -> List[List[int]]: rows = []rows = []if numRows <= 0: # base-case return rows rows = [[1]]rows.append([1]) for loop for i in range(1, numRows): row = []row = []for j in range(0, i + 1): for loop if j == 0 or j == i: i = 10 -> 2 row.append(1) else: for j in range(0, 2): if j=0 or j==iv: prev = rows[i - 1]row.append(1) -> row=[1] row.append(prev[j - 1] + prev[j]) rows.append(row) prev = rows[0] row.append(prev[i-1]+prev[j]) return rows row = [1,1]rows = [[1]]rows = [[1], [1,1]]0 i = 20 -> 1 -> 2 -> 3 0 -> 3 row: [1, for j in range(0, 3): if j=0 or j==i: [1,2,1 row.append(1) -> row=[1 i = 3 $0 \rightarrow 1 \rightarrow 2 \rightarrow 3 \rightarrow 4$ prev = rows[1] = [1,1]0 -> 4 row: [1, prev = rows[1] row.append(prev[i-1]+prev[j]) [1,3,3,3,1] for j in range(0, 4): if j=0 or j==i: rows.append(row) row.append(1) -> row prev = rows[1] = [1,2]1 rows = [[1], [1,1]]prev = rows[1] row.append(prev[i-1]+prev[j]) prev[i-1] = prev[2] 0 1 rows.append(row) row = [1, 3, 3, 1]rows = [[1], [1,1], [1,2,3]]rows = [[1], [1,1], [1,2,1]0 1 0 rows = [[1], [1,1], [1,2,1], [1,3,3,1]]1 2

Pascal's triangle