## Sourch in a 20 Motorix the have to search in a two o many in o (log (mxn)) Complexity. In the avaestion they have given two properties 1. Each Yow is sorted in non-decreasing 2. The first integer of each row is greater than lost integer of previous to In this problem we have to do binary search on Rows then we have to find the you which has the volce based on the above two properties. ROWS, COLS = len(motorix), len(motorix[0]) top, bot=0, Rows-1 While toPL=bot YOW: (toptbot) 1/2 if toxget > x motrix[row] [-1]: top = 800+1 elif target < matrix [row] [0]: bot = 8000-1 else break if not (topL=bot): return Folse

yow = (top+ bot) 1/2 1, 8= 0, COLS-1 While IC= 7: m = (H8) 1/2 if target 7 motorix [sow][m] m= l= m+i elif target a motoix [row] [m] 3 = W-1 else return Tral return Folse