### Search in a matrix

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Given a matrix **mat**[][] of size **N** x **M**, where every row and column is sorted in increasing order, and a number **X** is given. The task is to find whether element **X** is present in the matrix or not.

**Example 1:**

**Input**:

N = 3, M = 3

mat[][] = 3 30 38

44 52 54

57 60 69

X = 62

**Output**:

0

**Explanation**:

62 is not present in the

matrix, so output is 0

**Example 2:**

**Input**:

N = 1, M = 6

mat[][]= 18 21 27 38 55 67

X = 55

**Output**:

1

**Explanation**:

55 is present in the

matrix at 5th cell.

Java Code

import java.util.\*;

import java.io.\*;

import java.lang.\*;

class CodingMaxima

{

public static void main(String args[])

{

Scanner sc = new Scanner(System.in);

int t = sc.nextInt();

while(t-- > 0)

{

int n = sc.nextInt();

int m = sc.nextInt();

int mat[][] = new int[n][m];

for(int i = 0; i < n; i++)

{

for(int j = 0; j < m; j++)

mat[i][j] = sc.nextInt();

}

int x = sc.nextInt();

System.out.println (new Sol().matSearch(mat, n, m, x));

}

}

}

class Sol

{

public static int matSearch(int mat[][], int N, int M, int X)

{

for(int i=0;i<N;i++){

for(int j=0;j<M;j++){

if(mat[i][j]==X)

return 1;

}

}

return 0;

}

}