**MATRIX SEARCH**

Given an n x m matrix, where every row and column is sorted in increasing order, and a number x . Find if element x is present in the matrix or not.

**Input Format:**

First line consists of two space separated integers N and M, denoting the number of element in a row and column respectively. Second line of each test case consists of N\*M space separated integers denoting the elements in the matrix in row major order. Third line of each test case contains a single integer x, the element to be searched.

**Constraints:**

1 <= N,M <= 30 0 <= A[i] <= 100

**Output Format**

Print 1 if the element is present in the matrix, else 0.

**Sample Input**

3 3

3 30 38

44 52 54

57 60 69

62

**Sample Output**

0

Program-

#include<iostream>

using namespace std;

int main()

{

int n,m,i,j,num,k=0;

cin>>n>>m;

int a[n][m];

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

{

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

{

cin>>a[i][j];

}

}

cin>>num;

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

{

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

{

if(a[i][j]==num)

{

k=1;

}

}

}

if(k==1)

cout<<"1"<<endl;

else

cout<<"0"<<endl;

}