Search a number in a row wise and column wise sorted 2D matrix

#include<iostream>

using namespace std;

int main()

{

int a[10][10],m,n,num,rpos,cpos,flag=0;

cout<<"Enter the number of rows and columns: ";

cin>>m>>n;

cout<<"Enter the array elements\n";

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

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

cin>>a[i][j];

cout<<"Enter the number that you want to search: ";

cin>>num;

for(int i=0;i<m-1,flag == 0;i++)

{

if(a[i][0]<=num && a[i+1][0]>num)

{

int temp=0;

while(temp<n)

{

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

{

flag = 1;

rpos = i;

cpos = temp;

break;

}

else{

temp++;

}

if(temp ==n)

{

flag = 2;

}

}

}

}

if(flag == 1)

cout<<"Element found at "<<rpos<<" "<<cpos;

else

cout<<"Element not found";

return 0;

}