Print Matrix Diagonally

#include<iostream>

using namespace std;

int main()

{

int a[10][10],m,n,row,col,sum=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<<"The diagonal order of the matrix is: \n";

while(sum<=m+n-2)

{

row = sum;

col = 0;

while(row >= m)

{

row--;

col++;

}

while(row<=sum && col<=sum && row>=0 && col<n)

{

cout<<a[row][col]<<" ";

row--;

col++;

}

cout<<endl;

sum++;

}

return 0;

}