Difference of sum of Diagonal elements of an matrix

import java.util.\*;

public class Main

{

public static int sumi(int[][] ar,int n)

{

int s=0;

int s2=0;

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

{

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

{

if(i==j)

{

s=s+ar[i][j];

}

if(i==n-j-1)

{

s2=s2+ar[i][j];

}

}

}

return Math.abs(s2-s);

}

public static void main(String[] args) {

Scanner sc= new Scanner(System.in);

int n=sc.nextInt();

int[][] ar=new int[n][n];

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

{

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

{

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

}

}

System.out.print(sumi(ar,n));

}

}