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Input

```
3 3
12 20 22
18 16 23
15 25 38
```

Output

```
Enter the number of rows and columns in matrix
3 3
Enter the elemnts of matrix
12 20 22
18 16 23
15 25 38
Sum of all elements of principal diagonal is 66
```

Input

```
3 3
12 20 22
18 16 23
15 25 38
```

Output

```
12 20 22
18 16 23
15 25 38
Sum of all elements of principal diagonal is 66
Sum of all elements of secondary diagonal is 53
```

Psincipal diagonal and Secondary diagonal Grodian # include Lstdio.h> int main () 1/2 int a[20][20], iij, paumoo, m.n. ecumoo; paints c' Enter the number of sions and columns in matrix In"); scanf (" 1.d 1.d", 8 m. 8n); paints (" Inter the exments of matrix "); 409 (1=0; ixm; i++) 2 fox (j=0; j=n; j++) & scanf c".Id", & ccistis); Printfo"\n") for Ci=o; ixm; i++) forGi=0; jensj+1) 2 if ci=i) pour = pour + aDIJDIJ; 3 printf C'sum of all elements of principal diagonal is 1-d In" pain);

```
1=0;
foggi = n-1; 1>=0; 1-)
3
     soum = soum talij[j])
        i++ ;
  3
  point (" sum of all elements of secondary
              diagonal is 1.d/n", ssum);
         Returnos;
 8
               Algorithm
stepl - stoot
Step 2 - Input min
Step3 - Repeat for (1=0; izm; itt)
          Repeat for (j=0 j j=njj+t)
             Input acijci]
           CEND FOR?
           CEnd FOR]
        Repeat fog cizos ikms itt)
           pepalt for Gilijerjitt)
            if (i==i)
            Psum= psum tali] [ )
           [End if]
           CENT FOR
          CERD FOR
           Outpat
                    Psum
```

step - i=0

step - foa Gint; j> 20; j--)

ssum = ssum + acij(j)

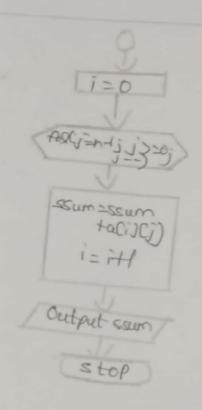
i++

CFrd for

step - output ssum

step - stop

Flowchast Start Inputmen for Cizos ismitt) fog(j=0jvenjitt) Input acistis PORCI=Osicmsitt) (foolististist) Psum -pamtatigij output Asun



Enter the number of rous and columns in matrix

3 3

Enter the elements of matrix

12 20 22

18 16 23

IS 25 38

Sum of all elements of principal diagonal is sum of all elements of secondary diagonal is 53.