

Program to find sum of Principal diagonal & secondary diag.

Algorithm

Step 1: Start

Step 2: Display "Enter the order of matrix"

Step 3: Read m, n

Step 4: if $(m=n)$, if this condition becomes false goto step 5
 Display "Enter coefficients of matrix"
 for $(i=0; i < m; i++)$

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

Read i & j and display array $[i][j]$

Display "The given matrix is"

~~Step~~ for $(i=0; i < m; i++)$

sum = sum + array $[i][j]$

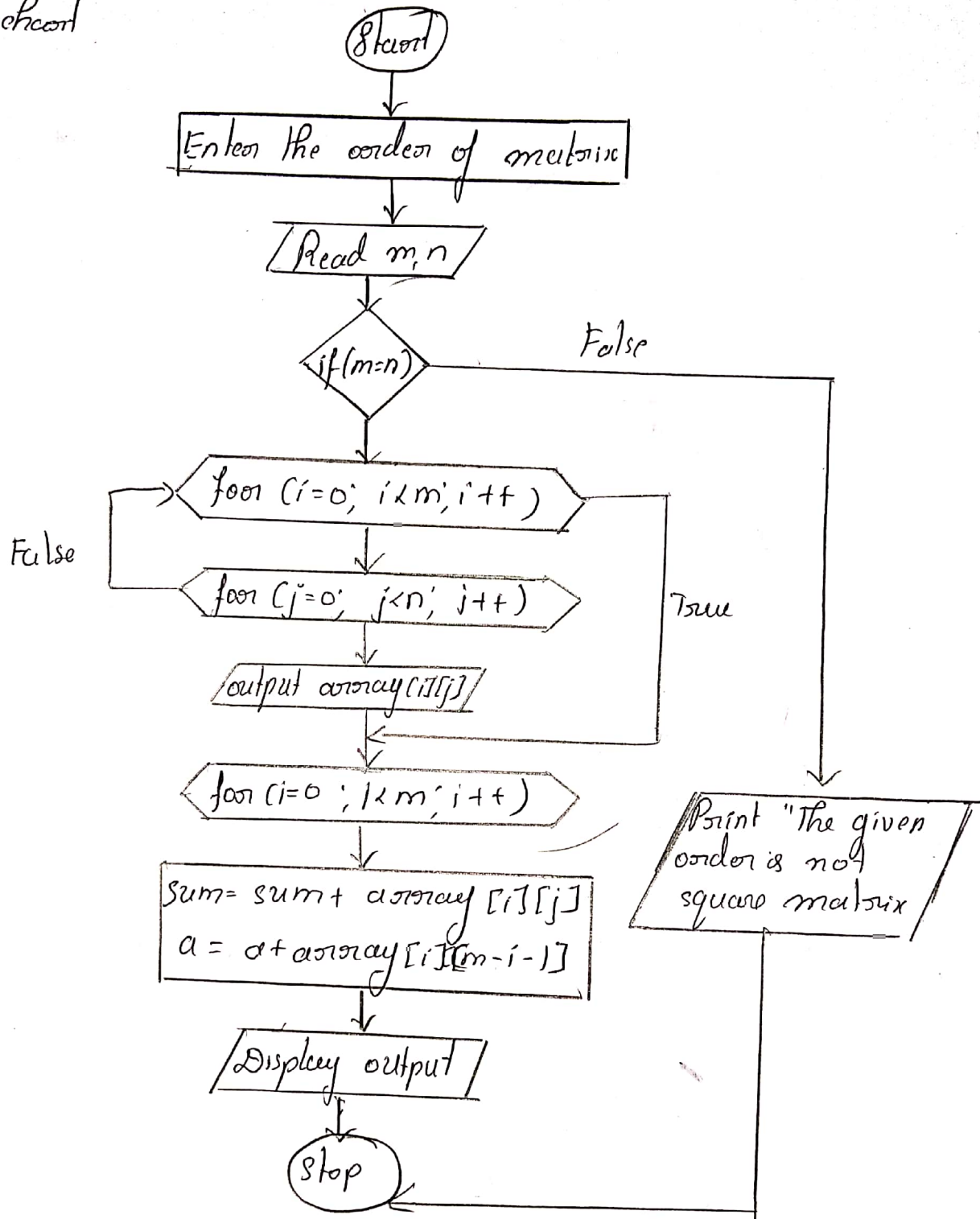
a = a + array $[i][m-i-1]$

~~Step 5~~ Display "The sum of main diagonal elements" output
 Display "The sum of secondary diagonal elements" output

Step 5: Display "The given order is not square matrix".

Step 6: Stop

Flow chart





Lite

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Code, Compile & Run

Ide: × +

Ganavi

Problem Code/Name (e.g. TEST)

Select

C (gcc 6.3)



Code gets autosaved every second



```
1 #include <stdio.h>
2 void main ()
3 {
4
5     static int array[10][10];
6     int i, j, m, n, a = 0, sum = 0;
7
8     printf("Enetr the order of the matix \n");
9     scanf("%d %d", &m, &n);
10
11     if (m == n )
12     {
13
14         printf("Enter the co-efficients of the matrix\n");
15         for (i = 0; i < m; ++i)
16         {
17             for (j = 0; j < n; ++j)
18             {
19                 scanf("%d", &array[i][j]);
20             }
21         }
22
23         printf("The given matrix is \n");
24         for (i = 0; i < m; ++i)
25         {
26             for (j = 0; j < n; ++j)
27             {
28                 printf(" %d", array[i][j]);
29             }
30         }
31     }
```

46.5



Open File

✓ Custom Input

Run

Custom Input

```
2 2
1 2 3 4
```

Status: Runtime error Date: 2020-06-16 12:29:55 Time: 0 sec Mem: 9.424 kB



Input

```
2 2
1 2 3 4
```

Output

```
The given matrix is
1 2
3 4

The sum of the main diagonal elements is = 5
The sum of the off diagonal elements is = 5
```

Runtime Error