

```
#include <stdio.h>
int main ()
{
    int a[10][10], i, j, m, n, b = 0, sum = 0;

    printf("Enter the order of the matrix \n");
    scanf("%d %d", &m, &n);
    printf("%d %d\n", m, n);

    if (m == n )
    {
        printf("Enter the co-efficients of the matrix\n");
        for (i = 0; i < m; ++i)
        {
            for (j = 0; j < n; ++j)
            {
                scanf("%d\t", &a[i][j]);
                printf("%d\t", a[i][j]);
            }
            printf("\n");
        }

        for (i = 0; i < m; ++i)
        {
            sum = sum + a[i][i];
            b = b + a[i][m - i - 1];
        }

        printf("\nThe sum of the principle diagonal elements is = %d\n", sum)
        printf("The sum of the secondary diagonal elements is = %d\n", b);
    }
    else
        printf("The given order is not square matrix\n");
}
```

**Open File**

## Custom Input

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

<b>Status</b>	Successfully executed	<b>Date</b>	2020-06-16 13:54:00	<b>T</b>
---------------	-----------------------	-------------	---------------------	----------

### Input

```
3 1
1 2 4
```

### Output

```
Enetr the order of the matix
3 1
The given order is not square matrix
```

**Open File**

## Custom Input

```
3 3
1 2 4
5 7 6
2 9 3
```

**Status** Successfully executed    **Date** 2020-06-16 13:52:41    **Time**

### Input

```
3 3
1 2 4
5 7 6
2 9 3
```

### Output

```
Enter the co-efficients of the matrix
1   2   4
5   7   6
2   9   3
```

```
The sum of the principle diagonal elements is = 11
The sum of the secondary diagonal elements is  = 13
```