

```
1 #include <stdio.h>
2 void main()
3 {
4     int array[10][10];
5     int i, j, m, n;
6     int counter = 0;
7     printf("Enter the order of the matrix \n");
8     scanf("%d %d", &m, &n);
9     printf("Enter the co-efficients of the matrix \n");
10    for (i = 0; i < m; ++i)
11    {
12        for (j = 0; j < n; ++j)
13        {
14            scanf("%d", &array[i][j]);
15            if (array[i][j] == 0)
16            {
17                ++counter;
18            }
19        }
20    }
21    if (counter > ((m * n) / 2))
22    {
23        printf("The given matrix is sparse matrix \n");
24    }
25    else
26    {
27        printf("The given matrix is not a sparse matrix\n");
28    }
29    printf("There are %d number of zeros", counter);
30 }
```

62.Sparse_Matrix.c

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

120
23

Screen Reader Optimized Ln 25, Col 9 Spaces: 4 UTF-8 CRLF C Win32

6:37 PM 7/16/2021

The given matrix is not a sparse matrix
There are 0 number of zeros
PS D:\Manan Work\Programs in C language> cd "d:\Manan Work\Programs in C language\" ; if (\$?) { gcc 62.Sparse_Matrix.c -o 62.Sparse_Matrix.exe } ; if (\$?) { .\62.Sparse_Matrix.exe }
Enter the order of the matrix
3
3
Enter the co-efficients of the matrix
12
10
0
0
120
23
0
0
0
The given matrix is sparse matrix
There are 5 number of zeros
PS D:\Manan Work\Programs in C language>