void main ()

{

static int array[10][10];

int i, j, m, n;

int counter = 0;

printf("Enter the order of the matix \n");

printf("Enter the number of rows in array: ");

scanf("%d", &m);

printf("Enter the number of columns in array: ");

scanf("%d", &n);

printf("Enter the co-efficients of the matix: \n");

for (i = 0; i < m; ++i)

{

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

{

scanf("%d", &array[i][j]);

if (array[i][j] == 0)

{

++counter;

}

}

}

if (counter > ((m \* n) / 2))

{

printf("The given matrix is sparse matrix \n");

}

else

printf("The given matrix is not a sparse matrix \n");

printf("There are %d number of zeros", counter);

}