Write a C program that asks the user to fill a square matrix of an entered dimension. The program must give an error if the entered dimensions are not of a square matrix. The program then displays the elements of the main diagonal of the entered matrix as a new array. The array containing the elements of the main diagonal is sent to a void-type function **sum( )** which calculates their sum and prints the result.

**Sample run:**

Enter number of rows: 3

Enter number of columns: 4

Error. The input must be a square matrix.

Enter number of rows: 3

Enter number of columns: 3

Fill the array:

1 4 5

3 9 7

4 6 8

The elements of the main diagonal are: 1 9 8

Their sum = 18