Algorithm :

- Take input from the user for the size of double dimension array(n).
- Define a integer array arr[n][n] and take input from console for the elements of the array arr[n][n].
- Calculate the minimum number of zeros that should be present in any triangular matrix of order “n” by the formula n(n-1)/2 and store it in any variable(number)
- Define a switch case with 2 cases for checking upper triangularity and lower triangularity
- For checking upper triangularity set conditions to check arr[i][j]!=0,for all (i=j) and arr[i][j]=0,for all (i>j) and set a flag variable(f=1) and counter (c++)variable respectively.
- For checking lower triangularity set conditions to check arr[i][j]!=0,for all (i=j) and arr[i][j]=0,for all (i<j) and set a flag variable(f=1) and counter (c++)variable respectively.
- If the value of counter variable (c)=number and f!=1 then the given matrix is triangular else print the matrix is not triangular.