

Representation of 2D array in memory

A 2D array's elements are stored in continuous memory locations. It can be represented in memory using any of the following two ways:

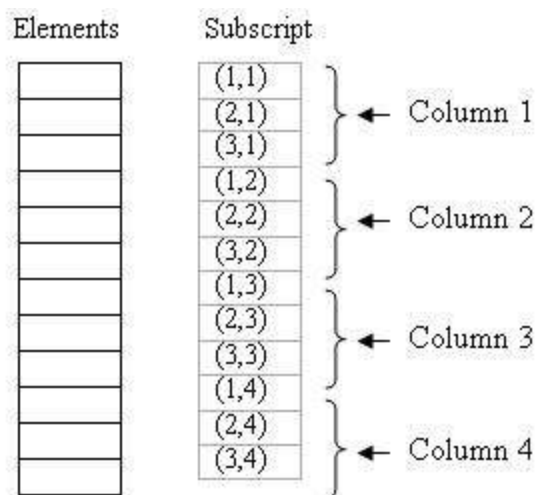
1. Column-Major Order
2. Row-Major Order

1. Column-Major Order:

In this method the elements are stored column wise, i.e. m elements of first column are stored in first m locations, m elements of second column are stored in next m locations and so on.

E.g.

A 3×4 array will stored as below:



2. Row-Major Order:

In this method the elements are stored row wise, i.e. n elements of first row are stored in first n locations, n elements of second row are stored in next n locations and so on. E.g.

A 3×4 array will stored as below:

