syntax for declaring a multi dimensional array

datatype array\_name[size of dimension1] [size of dimension2]….. [size of dimension-n];

eg:

int a[10][20][5];

syntax for declaring a two dimensional array

datatype array\_name[row size] [column size];

eg:

int a[5][3];

Memory Allocation

0 1 2

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |

0

1

2

3

4

two indices needed to access an element in two dimensional array - row index and column index

row index ranges from 0 to rowsize-1

column index ranges from 0 to columnsize-1