

Multidimensional Arrays

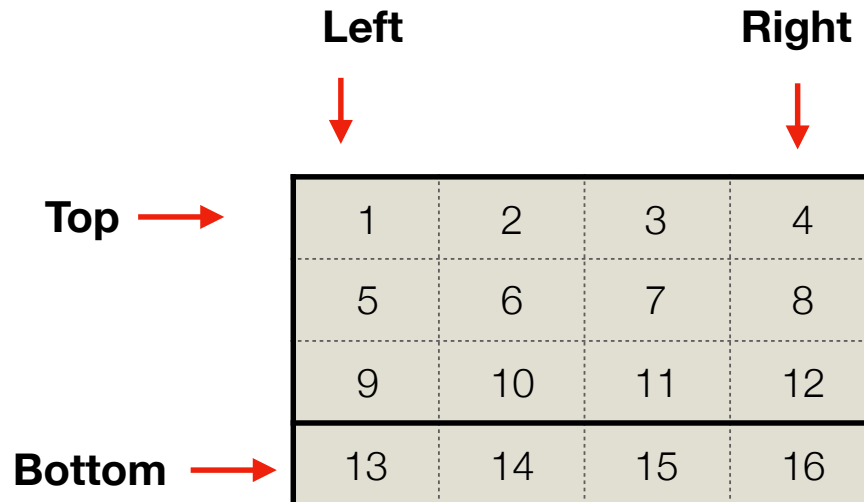
- Spirally traversing a matrix
- Given a matrix of size $R \times C$
- Let's Suppose, $R=4$, $C=4$

`int x [4] [4]`

1	2	3	4
5	6	7	8
9	10	11	12
13	14	15	16

Hello world

Multidimensional Arrays



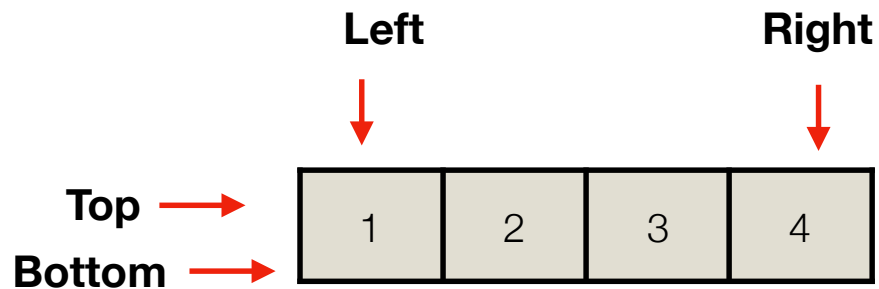
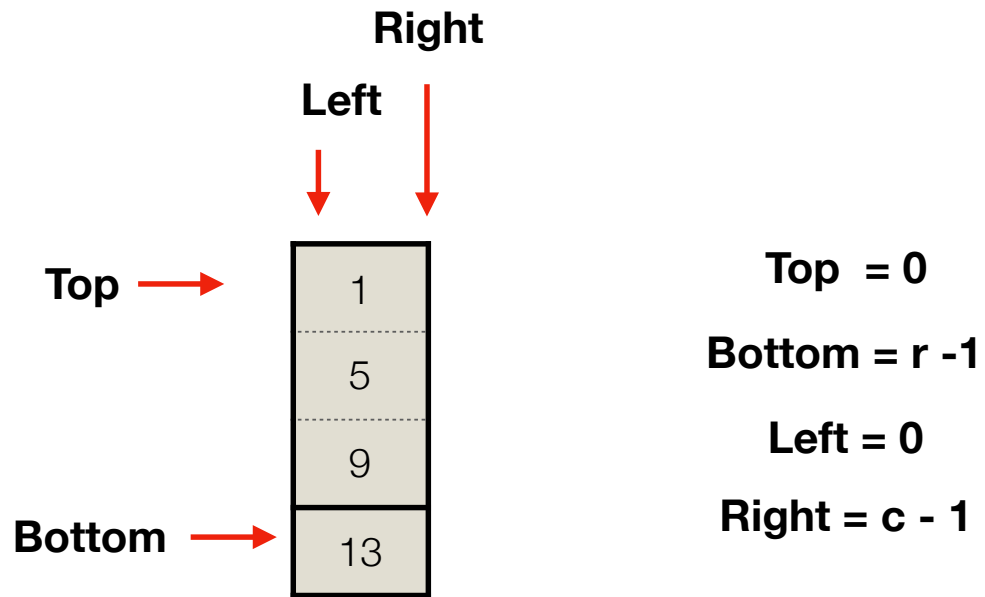
Top = 0
 Bottom = r - 1
 Left = 0
 Right = c - 1

Top = 0
 Bottom = 3
 Left = 0
 Right = 3

Left -> right	1 2 3 4	Top++	Top = 1
Top -> bottom	8 12 16	Right--	Right = 2
Right -> left	15 14 13	bottom--	Bottom = 2
Bottom -> top	9 5	left++	left = 1

Hello world

Multidimensional Arrays



Hello world