- $arr = [[0] * 3] * 2$

  $arr = [[0, 0, 0]] * 2$

  $arr = [[0, 0, 0], [0, 0, 0]]$

indices

arr	0	1	

nested list

0	1	2

0

id (arr[1]) = id (arr[0]) id (arr
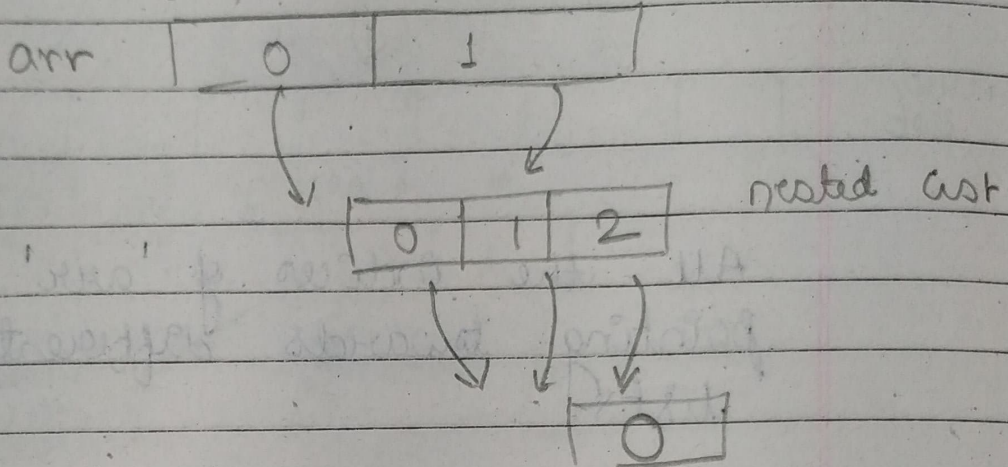
All indices of 'arr' are pointing towards same list.
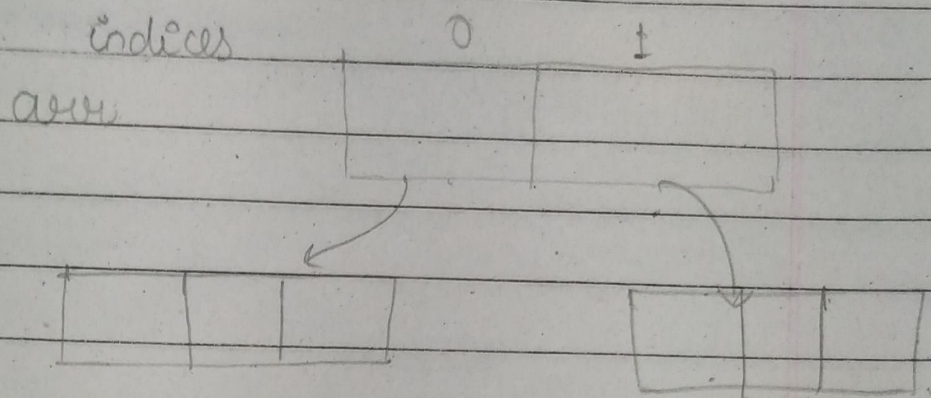
id (arr [0]) = id (arr [1])

change made in 1 list (row) will affect all the rows.

$arr [0][1] = 10$

$arr = [[0, 10, 0], [0, 10, 0]]$

change on all rows

- arr = [[0, 0, 0], [0, 0, 0]]

indices   0   1

arr

Each index in arr is pointing
to different lists.

$id (arr [0]) \; != \; id (arr [1])$

change made in 1 row will
not affect other rows.

arr [0] [1] = 10

arr = [[0, 10, 0], [0, 0, 0]]

↑

one change.