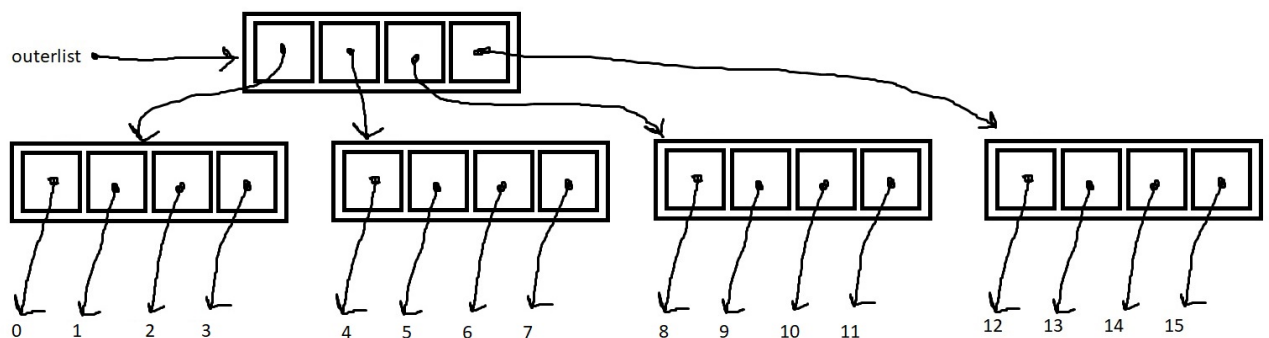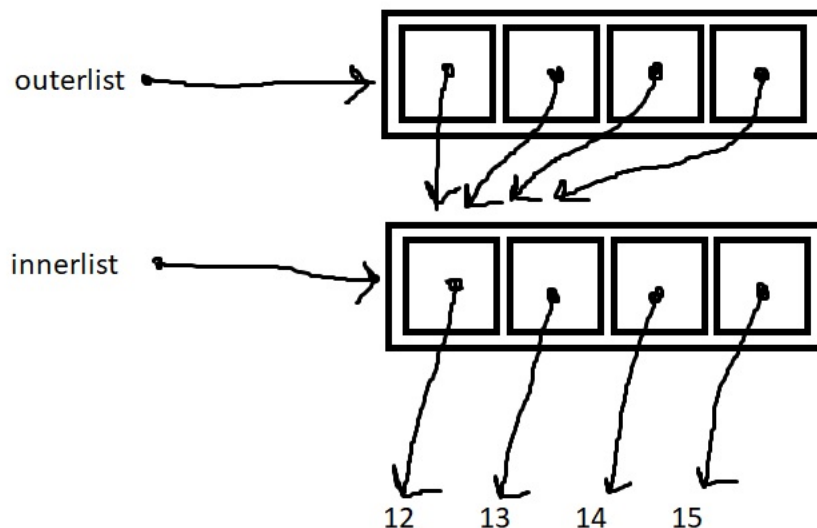# List of lists of references – Follow the links: Solution

The typical student **expectation** of what code like this would do like is create a two dimensional array holding all numbers from 0 to 15 as below.

However, what we would find is that each element of the `outerList` just refers to the same `innerList`.

Following the links you would see all we are doing is overwriting the same list contents again and again, changing `innerList` from `[0,0,0,0]` to `[0,1,2,3]` to `[4,5,6,7]` to `[8,9,10,11]` to `[12,13,14,15]`.

To implement this algorithm so that it matches expectations of a list of lists of 0 to 15, we need **different** inner lists, one for each cell.