

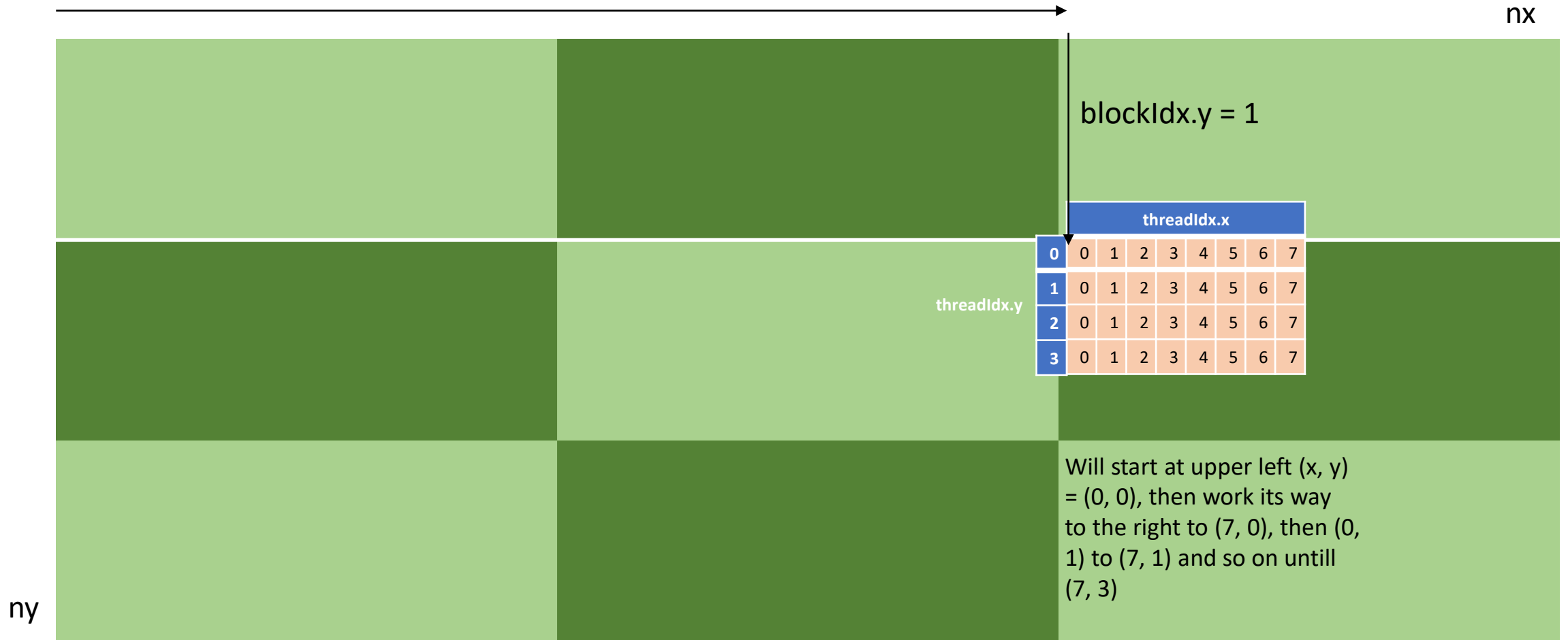
Quiz 5

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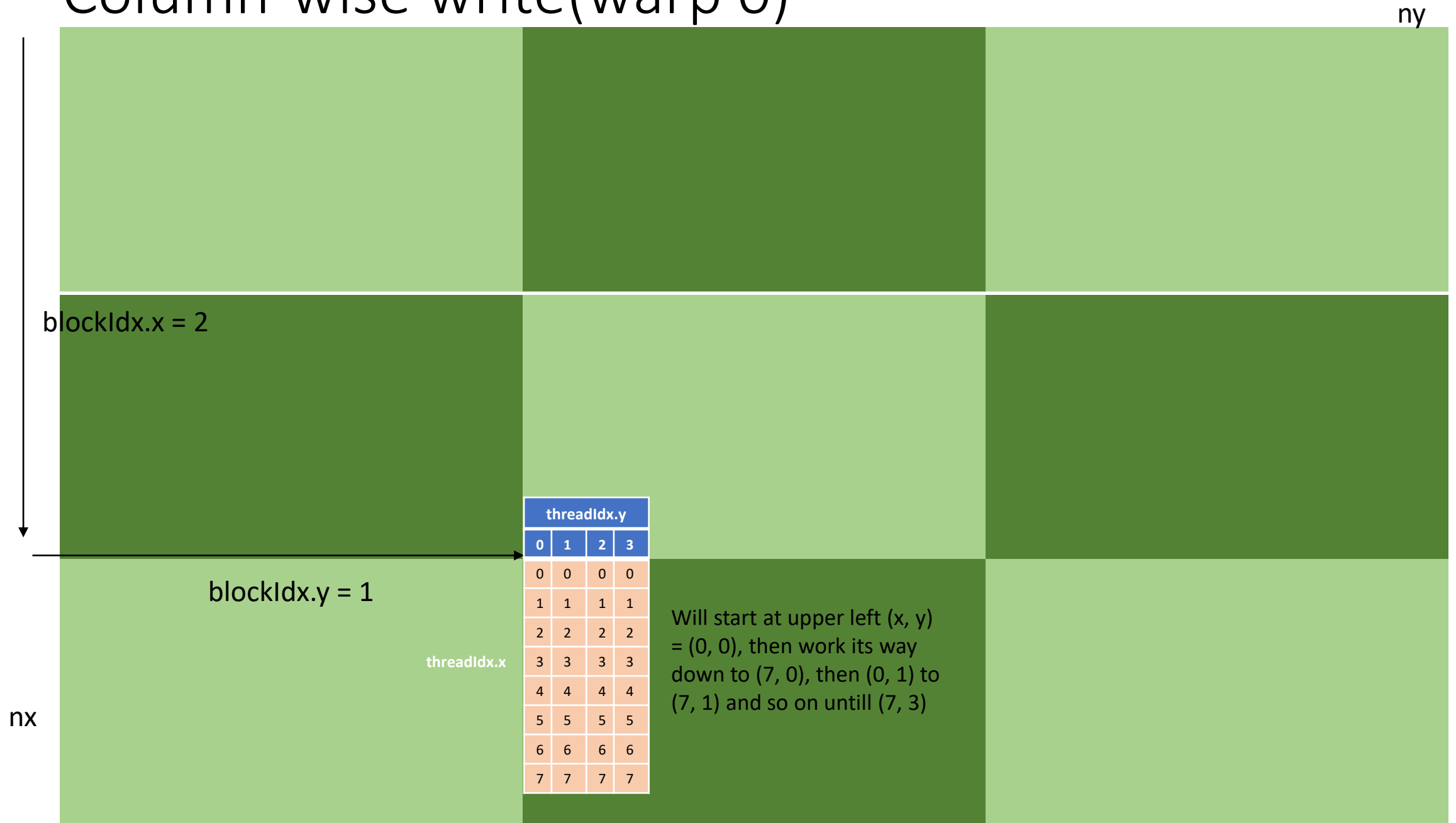
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Row-wise read(warp 0)

blockIdx.x = 2



Column-wise write(warp 0)



Transactions per request in a warp

Row-wise read

- For the row-wise read, every 8 out of 32 elements are coalesced read. We therefore need $32/8=4$ transaction for a warp to read the data it needs.

Column-wise write

- For the column-wise write, we have no coalesced access to the matrix, and we thus need $8*4=32$ transactions for a warp to write the data.