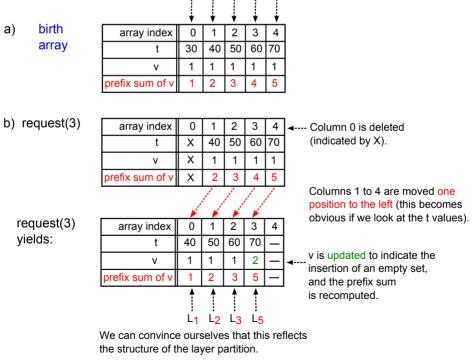
We are given the following layer partition, for which we request page 3: a) laver layers Ln L<sub>1</sub> L2 L3 LΔ L<sub>5</sub> partition 1,2 3.4 5.6 7.8 9.10 11,12 pages created at time t 40 70 30 50 60 b) request(3) layers L<sub>1</sub> L2 L<sub>4</sub>  $L_5$ Ln L<sub>3</sub> yields: 1,2,4 5,6 7.8 9,10 11,12,3 pages 0 created at time t 40 50 60 70 The contents of layers L1\{3\}, L2, L3 and L4 all have to move one position to the left. Let us see how this is implemented by TStamp: **TStamp** 



Recall that the birth array has a maximum length of k. In such a case k-1 columns have to be shifted to the left which is expensive.