

Algorithm Design
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Solution of Exercise C-14.1

Consider a linked list implementation of the dictionary where every node is a block of size B . We would perform an insertion by first reading in the last block. If this block is not full, then we add the new element to the end and transfer this block back. If this block is full, then we allocate a new block for the new element, transferring this block back to the disk when we are done. We also create a link in the previous block to this new block and we transfer the previously-last block back to the disk.