Q3). We can put all the keys into a bit victor A, where every "I" digit represents a number in the dynamic set. If the its element is not in the set, then A[i]=0, otherwise A[i]=1. Since this can be the accessed directly by a table, the dictionary untime is O(i).

Question 4, to append element to the head which will take O(1) fine as mentioned. Will return the first element, a node in the 'doubly linked' list and takes O(1) time Comprexity element from the doubty linke list utilizing the pointer, pointing to either the next node, or the Poculous node.