DAY-37 1) - Clone a linked list with nent and random pointer Criven a linked hist having two pointers in each node. The first medicane points to the ment node of the list, however, the point to any node of the list. Approach: -I create a copy of node and insert it between nodel and node ? in original linked list, create a copy of 2 and insert it between 263, continue in this fashion, and the copy of oN after the NTh made linked list in this feshion. original > nent > roundom = original + random (CTraverse we noded). This works because original > nent is nothing but copy but copy of random I Now restore the original and corpy linked de lists in this fashion in a single loop. original ment = original ment > h copy a ment - copy ment a real and return me doned mixt.

Implementation: det done (original root): curr = original - root While cury!= None! now = No de (eurr. data) new. hent = curr. nent oury nent = new curr = curr. hent. nen F "The above is to insert node after every node)" curr = original - root enple eury != None. current ment randon = curr romdom nent curit curr nent hen t it's to adjust the rendram pointers Detaching original and duplicate hist " eurs = originals noot drup root a original root, nent while ours nent 12 None: tomp = mix. rent ours, stent - curs, hent, hent our = smp. return dup-nook.