3. Single binled list - sost, reverse, concatination Hinchoderstatio h> #indrdecstdlib .h> struct mode { int data; struct mode onent; foid insert (struct node as head, int data) E Am & node « newsno de = (storiet node ») mallo c (size of (storet note)); neverode -> data =data; new mode -> ment = & read void print (struct mode · head) { while (head] = NOLL) prints (" 1 od It", read - sta); read: head ment; 2 3 (SIUTA - S SINGER MAN) D void sort (struct male as trond) I stant mode a convent, a new mock; int temp: Current = a gread; while (averent !: NULL) ? next nock = consent - ment; while (next node 1=NULL) { if (current -> data @> nent mode -data) E- temp = current - Lata; marent - data = nentrode - data : rent mide de - data - temp rent mode = rent mode - ment?

Void reverse (stmit mode soshend) struct node aprev, acurrent, a nextrade; prev = NULL > current = shead; While (consent ! = NOLL) nent no de = averent = ment 3 prev = corrent; ins of stand made avrent 2 nextrode; to head = prev; concatenate (struct mode a plists struct mode if (o list 1 == NOIC 1) E adistlealist 2; (Note Man) d'il return; (Catholica bases of the Stanet mode a temp addist 1; while (temp - nent! = NUCC) I temp = temp - nent; temp - neut = list 23 void main () struct mode a list (= NULL) struct mode a list 2= NULL; int choice; while (1)
{ printf ("1. Insert into list | \to, 2. Insert into list 2 It 3. Sort list 1 la 4. Concatenate lists It 5. Reverse list 1 It 6. Display It
J. Guit In"):

scort (" Enter your choice "); Switch (choice) print ("Interdada to insent into list!"); Scanf (" 1.d", dedate); indet (& lett, data); preats in duta:"); point Canterdata to insent scarp (" 1. d", dela); insert (& list2, dota); broaks printf (" Gst 1 Borted"); breati printf (" lists concalinated"); Cose A break; rewerse (& list 1); Case 5 printb("list 1 reversed"); breat; print((" list 1: "); Cose 6 print (List 1); Case 7 exit(o); default prints ("Invalid Type").