21/12/23 1) / Program to map two numbers using pointers #tinclude < rtdio h> void map (int \*a, int \*b) { int temp = ra; \*a = \*b; \*b = tempi Void main () { int a,b; printf ("Read values for a, b: "); reant (" rd rd", da A b); frintf (" Value before mapping in a= xd ; b = xd"); map (fa, db); front ("Value afor mapping in a = %of, b = %d"); suffer. Read values of a, b. 43 Value before mapping belie after mapping 0.=5

Brack implementation Hurdude (stdio h) # include ( italit h > " define was to ind dakk[max]; and top - 1. Hash ( int a) { 1 (top = max -1){ fruit ("Mack is full"), return; too at and tack [top] = a, and trop (){ 4 (top = = -1){ trinif ( stack is compty), front ( lighted element is rod", Mack [top + 1]), Void diplay() { of (top= 1) ( frintf ("stack is empty"); for line i-o, ic= top, i+t) { printy (" %d ", stakk [i]); Filmin bid me choice. ant and while (DE provide ("in rolat an option: In lun element In 2 lop Elem m 3. Display elements) mant (" od", & chance); witch (cheicas) { frintf("Enter value: "); ( sout ( tod ", 200); Fink; row - hapely Mudday,

Callet? thus dement 5 Diplay dements lipice! giter value: 2 cheice 1 inter value 4 choice: 1 liter value: 3 choice 3 choice 12 ipped dement is 3 1 4

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3) // Program to demonstrate dipramie allocation
tinchede station>
I include tidlib h>
wid main(1 (
      int n, tan, tanz;
     printf ("Read lungth of both arrays:");
     reant ("ofed", & n);
     our = (int madloc (n * ringe of (int));
    and = (intt) raller (n, vigrof (int));
    for (int i = 0; i < n; i++) {
      1 am[i]= i+1;
         an [i] = n+i+i;
   trinit ("Array 1 before merging: (n');
   for (Inti=0; icn; i++) (
          a frintf (" od a) par [i])
  in - retallor (av, 1 nt migrof (int));
  for (intion; i < 1 * n, i +t) {
      antil= ans (1-1);
```

for ( int 100; 122 n; 1+1){ frid (" Fed ", and ]), puland; Hud and length of both arrays: 5 ty I dore morging: 7 3 4 5 4 5 6 78 9 10

may & after merging.