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BAITCIOSO
N. Jay anth
ADA Lab Test
14/6/21
16 655 BCADA
    1) Write a recursive function
    a) to find GCD
     # include < stalib. h>
     Hindred < Statio. h>
                            ١)
      int gcd (anh a, int
      int main ()
       int a 15;
      print ( " Enter two integers ");
       scarf (" 1d 1d", da, 46);
       Frist ("GCD of 1da 1d in 1d", 1, 5, gcd (a-6))
       return 0;
     int ged (inta, int b)
          11(61=0)
          Pretun gcd (b, alab);
          Use
         - Hom a;
```

pregram to find town of home? b) # induke < stalis. h > using remain hundrion: # induse < otdion h> 'took haroi (int n, chan x, chany, chan z): if (n==1) f yout << "More diste I from rod " << The << "to med " << y; return; hani (n-1, 1 12/1); cost << " more disk " << n << " honred" << x << bord " << y "; * havoil in-1, 2, y, 70): varid main () E Int n; print (" later number of clides"; Steng (" Y.d", kn); Hanoi (n; 'a; 's, 'b') program: court munder of a coline of in the b) medifid form of Laws problem. Hinduk < stdbb. h> #indul < stellan> vaid for (int n, John,

Void haroit int n, char n, chang, Dan z, introut) priot (From "); hari (n-1,7, y, 22) baid here i (int n, then n, that y, that is, int count) (i) (n=1) f painter hore disk I from ad" sky; between ; I count ++; print (" The Ma Count of transin all his tod", count) havi(n-1, be n, buy, on z, in bout) profile more disk "K h << fra mod" << mails "rad" << y; hard (n-1, z, y, u, kowt) production of the same print ("The count of Because which : 1d", count); voil man () to no pronty ("Exter number of disher"; sug (" 1d", kn); hand (h, 'a; "" ; b , 0);