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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 here is b) oniginal using namine function. b) Hindule <stdib.h> Himeline (otdio. h) 'You'll havoi (int n, clor x, chary, char 2): to had 10", 6x, 6y ); if (n==1) P print &" More disk I from rod the come conting: return; hand ( n-1 /k /2/)); rod old to rod old "kn, kx, ky);
party ( n more dish ild how rod old to rod old "kn, kx, ky);
cod ( more dish ild how rod old to rod old "kn, kx, ky); 1 havil in-1, 2, 4, 70); 3 paid main () { Int n; prof (" Todo nutsu of clides "; Stay ("Y.d", kn): Hanoi ( n; "a;" "b") Count manber of a Edin of in the programi b) medified former of Lawsi problem. Hinduh < stalls.h> #include < stellinh> vaid basis (int n, Jan, May, change - back from rod " ( Chand );

Void havil int n, char n, chang, Dan z, int coul) priot "From "); Cout << " More disk << n << "hom and " << x << "hom and " << x << " home of the color of the col havi (n-1/2, y, 2) boid heroi (int n, then n, day, don z, int count) t if ( n == 1) E print ! Nove disk I from not sted to redtike fighty) return ! I count ++; prints (" The Malant of remaine Whited", count ): hand (n-1, the n, chary, and to home );

private proce disk to have had to ho and to home by

count ++; hand (h-1, z, y, u, kout) production and the second print ("The count of Eccupate which = 1d", count ); voil man () int no proof ("Fotor number of distro"; sung (" -/d", km); hansi(h, "a, "c", b", 0);