```
* LAB - 1
                PROGRAMME - 1 *
   * GCD RECURSIVE: 7
 int ged (intro, intro)
      intum;
      if (m2==0) xutur n1;
          rudun ged (n2, n1%, n2);
                       BINDRY RELURGIVE
  int main () 3
        ind nums, nums, gcd',
     painy (" Ender tuonumbus"):
    scan ("%d %d", & num2, 8 num2):
    gco = god (mun 1, mun 2);
  P1 ( " q cD is % od ", q cD);
     * GCD ITERPOTOVE:
Flinchede 25tdio.6)
 int main () ?
  int num!, num2, ven;
  Pf (" Entil two numbers");
  of ("% dif. d"), frums, frum 2);
    ((nunicaum2) 3
                num! = num! +num2;
                                      115wap
               num 2 = num 1 - num 2.
               num 1 = num 1 - num 2.
```

while (nun 2 != D) PREGRAPHIE sen = numl /onum 2; nun 12 nun 2; mun2 2 vens; gl" 410 is %.d, " nunl); Centus autury poblar

of PROGRAMM - 3 + BINDRY RECURSTVE

include (stdfo.b)

818 was

end benalysearch (end are [], int Key, int ni, int n2) ? int mid = n2/2;

5009 ° 609 91 819 114 if (au [mid] == ky)! Pring (" Key id found "/od ;' mid); of do Tlekuishe!

if (as [mid] < key) sutuen binausealch (all, ky, n1, mid);

rutuen binaupuauh (aes, Key, mid, n2); if (ass [mid] 7 ky])

> · grand - 1 housen of bridge number of mineral and many of

Mrain binausearch function.

ind numb, numb, and

period (" Ender fruit he mitters ");

E C) Chapan hos

```
void swap (int *xp, int *yp
                               // swapping elements
     int temp = +xp;
      and such;
     +yp = temp;
void octution 5004 (ent all [], into) ? //souting the assay
         Pot Pj, ming Pdx;
   for (1=0;1<0-1;1-1-1) }
             nun-idn=i;
           for (j=i+1; j<p;j=17)
                  if carry are [missindse]
                      min_ida = J's
      Ewap (foer[min-ion], face[i]); Mintuchonge
       copale way sady punal hot all
 ind main()?
      int i, n, ky;
                              selutionsort (au,n);
    Of (" entusize")):
                              Pf ("Entre the Key);
   scarle lason);
                              of (4%,0%, fky);
   in 4 als Co7;
                              binarysearch (ars, ky,
  of (" envil denients");
  for (izociencia)
       Ef ( "6 d", & aussi);
```

* LONEAR SEARCH PROGRAMA

include assidio.h) int main() } int ausio), i, n, ky, slog = 0; of ("enter no curett in away"); 3f (" % d", 3 n); PJ (" entre ikms into away"); for (i= p:i<n;i+n) 3 S/Cu V.a. Jaes (i); PJ ("Entis the elements and to infounded: \n"):

BJ (" V.d", & Key)., for 19=0; icn; 1-11)2 pflurey found in position "led ", i");

flog=1; il (au li]== ky) ? Mis Challant has j(jleg == 0)}
pring (ukay not found ");

(1) introduction (1)