```
ADA LAB TEST-1
                                                                         1BM19CS 167
14/06/21
                                                                       SWAROOP.S. JADHAV
  #inlude < stdio n>
                                     granting of the safety of 1 sections at making the a
  # Pullede < Stdlib.h>
  Himme < hime. h>
    But status;
        linearsearch (int arx [], int n, int key, int i) (122)
     <
           Status = -1;
           17 (aux (1)== ney)
                Status = 0;
                 return i;
            else
           <
              return linear Search (ash, 17, hery, (1+1));
            4
       7
           southeray ( But aux (7, But n)
     Void
     ⟨
           for 19 wt 6=0; ben; b++ )
                                            I butter fifth they be & Spentlan Roman
               for (Put e=b+1; e<n; e++)
                    94 (aus 167) aus (e7)
                                                                    ; ( H Was b. :
                         au (b)= au (b) + au (e);
                                                      barrels with record the House
                          an (e)= an (b),-an(e);
                                                            ( SU Y . 6. ( ) - 1210) 17
                          ax (6) = ax (6) - ax (e);
                                                        ( alphalia to the
            y
```

14/06/21 ADD CAS TEST 1 1BM19(5161 SWARDOP-S. JADYA îw binarysearch (ind ars 17, ind 6, ind e, ind ney) 1 Harry = 1; it (b<=e) înt m= b+ (e-b)/2; it (our (m) = = vey) 1 Status = 0; return m; else it law (m)> hey) return binayseares (aer, b, m-1, hey); elge return binanjean (an, m+1, e, hey); Put main () ( in the fill xon the I read that show (him (NULL)); Put (yk; Prints ("Enter length of random away : "); Scanf (11.1.44, &(); Milliana Hill of to int au (1); Prints ("Enter the element to find "); scary (11.1.11, &k); - ( 1) 20 della 0 (1) 20 ( Police All con the on Mey = 12; 101 (P=0 ; P< ( ; it+ ) ay 187: (sand ().1.1000); any . (2)

```
double rest, rest;
                                  ELIATE MARKET TO THE
Clock - start, end;
 Start = clock();
 Put U = linearsearch (ass, 1, ney, 0);
  end : dock ();
  rust = (Idoust)(end-stant) / (10165_PER_SEC;
  Start = clock ();
  Pul bi: bivaryseaun(au, 0, 11-1, hey);
   end = dock ()., (30 Unit and the 11 set, the shoot is
   rest = ((doust) | lend - stand 1) / (LD (ES - PER SEC)
   Privat ("In - LINEAR SEARCH -- In");
   9f (Haby == 0)
   peintilling Jours at index 1.1 In ney, (i);
   else
                        continue of & Born Hall ( )
     print(" -1.d not found in the away ");
```

Printfl" Pine taken by linear search: 1.1f In" (res));

return 0; int want = 1; while (left >= 0 & & our (left 7== E) port of met of windy one till by the www ++, lest --; in right = 1+1; while Teight can be an Teight 7== (2) count++, light ++; return court;

Put Mode liet aus 17, jut nn, jut es

it (i == -1)

înt i= binary seans (aux ,0, nn-1, 12);