ADA LAB TEST-1

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30M-4

#Enclude < stalo.h>
Enclude < stallo.h>
include < tense.h>

vold ruege (int aua [], int l, int m, int a) {
 int i, j, k;

Ant ml = m-l+1; Ant m2 = 91-m; Ant L[n]], R[n2]; for (i=0; i < ml; i+1) L[i]] = aux[i+i]; for (j=0; j < m2; j+1) R[j] = aux[m+1+j]; i=0; k=0; k=0;k=0;

```
# (1027 <- REET) }
  else 1
       ane [x] = R[j];
while (I < m1) {

aun [k] = L[I];
         R++ : 3
 while (9< n2) \( \)

aun [k] = k[j];

\[ \]

k++; \\ \}
  vold murgeout (let aux[] int l, int n) }
if (1< n) {
    int m = 1+(n-1)/2;
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inorgesout (arm, l, m).

merge (arm, mal, m).

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moid printAmay [Int A[], int size)?

int le (pi=0. 22 size; ft+)

printf ("lod", A[i]).

printf ("lod", A[i]).

int mala ()?

clock:t start, end;

double time taken;

start:=clock ();

unt arm size;

printf ("Futra array size").

Scarf ("lod", & sace are size).

int arm [arm size].

printf ("Enter the elements to be souted.").

for (ent i=0. i < arm size; i+t)?

scarf ("lod", & arm size; i+t)?
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pount ("Given arway is \n")"

product Armay (actory seen, and eize);

stant = clock ();

musique sout (and, o, aser size-1);

product ("Souted accuray is")"

end clock ()"

threstoken = ((double)(end stant))/crocks. PER_SEC;

product ("threstoken is = "/of", threetaken";

refrom 0;

Modified program

eint a main () (
Int a[5], b[5], c[10], i, j, temp;

for af // input the 2 coverag elements i.e a, b.

for af // input the 2 coverag elements i.e a, b.

for (l=0, i<5. i++)

| c[1] = a[1]."
```

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11 perint resultant souted average c.
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