```
Online C Compiler.
               Code, Compile, Run and Debug C program online.
Write your code in this editor and press "Run" button to compile and
#include <stdio.h>
#include <time.h>
void delay(){
    for (int i=0;i<10000000;i++){
       //deLav
void merge(int a[],int low1,int high1,int low2,int high2)
   int temp[1000];
   int i,j,k;
   i=low1;
   j=low2;
   k=0:
   while(i<=high1 && j<=high2)</pre>
      if(a[i]<a[j])
          temp[k++]=a[i++];
          temp[k++]=a[j++];
  while(i<=high1)
      temp[k++]=a[i++];
  while(j<=high2)
      temp[k++]=a[j++];
```

input

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main.c
 38
 39
          for(i=low1,j=0;i<=high2;i++,j++)
 40
              a[i]=temp[j];
 41
 42
 43
44
     void sort(int a[],int low,int high)
45
46
47
         int mid;
48
         if(low(high)
49
50
             mid=(low+high)/2;
51
52
             sort(a,low,mid);
53
             sort(a,mid+1,high);
54
             merge(a,low,mid,mid+1,high);
55
56
        delay();
57
58
    //display array
59
    void display(int a[],int n)
60
                                                          I
61 -
    1
62
        int i;
63
        for(i=0;i<n;i++)
64 -
65
            printf("%d ",a[i]);
66
67
68
69
   int main()
70 -
   1
71
72
73
74
        int a[1000],n,i;
        int
               nd(void);
        clock_t start,end;
        double timetaken;
75
```

