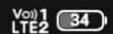
46 1 10:45



Compile Result

```
Enter total number of elements:6
Enter the elements:
12 34 54 63 21 32
After merge sort:
12 21 32 34 54 63
[Process completed - press Enter]
```

Ity1: Itart

Itop2: Declare Int Set 5507; Inti, Dige;

Aty3: Enter the Size

Itap4: Read the Claments wing for loop

4.1 partition (List, O, Dige-1)

Diplay After mange sort

por(i=0; ix size; ++i)

print ("id", list si])

artipo; Doctoro int mid:

5.1 If (low / high)

5.2 mid = (Low + high)/2

postition (List, Low, mid)

postition (List, mid+1, high)

more_sort (List, Low, mid, high)

Itep6: Doclaro Inti, mi, K, lo, temp 50.7

6,1 Lo = Low 1'= Low mi = mid H

6.2 while ((lo <= mid) & (mi <= high)

If (Lort [Lo] <= Let [mi])

tenp [i] = lost [lo]

lo++

Elre

temp[i]=List[mi]
mi++

for (K= mi; KK= high; K++) tempsi]: Lort [K] 6.4 Elre /os (K= Lo; KK = mid; ++K) temp [i] = List (K] or (K= Low; K<= high; K++) list [K] = temp[K] Itop: Step7: Howchart Declare voice negeror (int ?7, int, int, int Void partition (int (7, int, int) Road Dize, Read List !! partition (List, O, size, -1) Display Latil void portition (int dat [], int low, int high Doclare 2t mid (low (high) mid = (Low + high) /2 partition (Lort, low, mid) partition (Lort, mid+1, high) margesort (fost, low, mid, high)

