Online C++ 14 Compiler IDE

Project Name: NP-merge01

```
1 #include <iostream>
 3
    using namespace std;
 4
 5 void merge(int arr[], int left[], int right[], int leftSize, int rightSize) {
         int i = 0, j = 0, k = 0;
 7
 8 =
         while (i < leftSize && j < rightSize) {</pre>
 9 🕶
             if (left[i] <= right[j]) {</pre>
10
                 arr[k++] = left[i++];
11 🔻
             } else {
12
                 arr[k++] = right[j++];
13
14
15
16 🔻
         while (i < leftSize) {</pre>
17
             arr[k++] = left[i++];
18
19
20 -
         while (j < rightSize) {</pre>
21
             arr[k++] = right[j++];
22
23
24
25 ▼ void mergeSort(int arr[], int size) {
26 🔻
         if (size < 2) {</pre>
27
             return;
28
29
30
         int mid = size / 2;
31
32
         int left[mid];
33
         int right[size - mid];
34
35 🕶
         for (int i = 0; i < mid; i++) {
36
             left[i] = arr[i];
37
38
         for (int i = mid; i < size; i++) {</pre>
39 🕶
             right[i - mid] = arr[i];
40
41
42
43
         mergeSort(left, mid);
```

```
mergesort(right, size - mia);
44
         merge(arr, left, right, mid, size - mid);
45
46
   }
47
48 - int main() {
49
         int arr[] = { 5, 3, 8, 1, 2, 9, 7, 6, 4 };
         int size = sizeof(arr) / sizeof(arr[0]);
50
51
         mergeSort(arr, size);
52
53
         for (int i = 0; i < size; i++) {</pre>
54 =
55
             cout << arr[i] << " ";</pre>
56
57
58
         cout << endl;</pre>
59
60
         return 0;
61
62
```

' Execute Mode, Version, Inputs & Arguments

CommandLine Arguments

Stdin Inputs

Result

CPU Time: 0.00 sec(s), Memory: 1740 kilobyte(s)

compiled and executed in 1.127 sec(s)

1 2 3 4 5 6 7 8 9

Note: Please check our documentation, or Youtube channel. for more details

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