38

39

40

41

scanf("%d", &a[i]);

clock t end = clock();

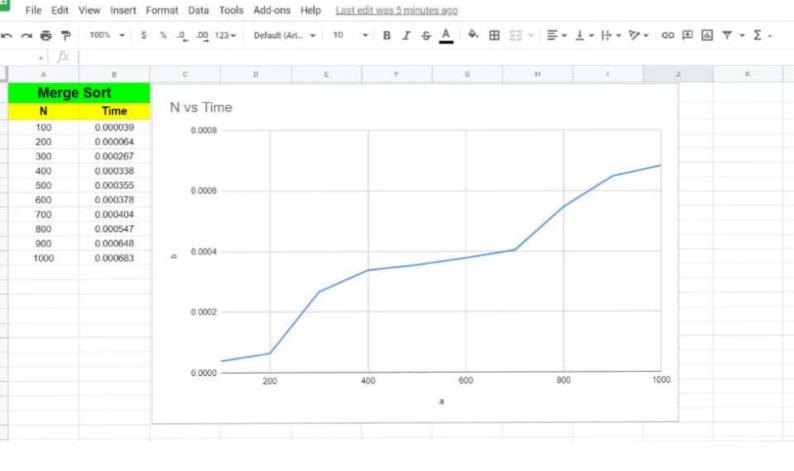
clock t begin = clock();

merge sort(0, n - 1, a, aux);

```
Logs & others
Code::Blocks X Search results X Cccc X Build log X Puild messages X
Start here X merge sort.c X
               int pointer left = i;
     10
               int pointer right = mid + 1;
     11
     12
               int k;
               for (k = i; k \le j; k++) (
     13
     14
                    if (pointer left == mid + 1) (
     15
                        aux[k] = a[pointer right];
                        pointer right++;
     16
     17
                    ) else if (pointer right == j + 1) (
     18
                        aux[k] = a[pointer left];
                        pointer left++;
     19
     20
                    } else if (a[pointer left] < a[pointer right]) {</pre>
     21
                        aux[k] = a[pointer left];
                        pointer left++;
     22
     23
                    else (
     24
                        aux[k] = a[pointer right];
     25
                        pointer right++;
     26
     27
               for (k = i; k <= j; k++) {
     28
     29
                    a[k] = aux[k];
     30
     31
         ⊟int main() {
     32
             int a[100], aux[100], n, i, d, swap;
     33
             printf("Enter number of elements in the array:\n");
     34
             scanf ("%d", &n);
     35
             printf("Enter %d integers\n", n);
     36
             for (i = 0; i < n; i++)
     37
     38
               scanf("%d", &a[i]);
     39
               clock t begin = clock();
             merge sort(0, n - 1, a, aux);
     40
             clock t end = clock();
     41
             printf("Printing the sorted array:\n");
     42
             for (i = 0; i < n; i++) {
     43
                printf("%d\t", a[i]);
     44
     45
             double time spent = (double) (end - begin) / CLOCKS PER SEC;
     46
             printf("\n\nEXECUTION TIME : %.10fseconds\n", time spent);
     47
             return 0;
     48
     49
           }
     50
```

C:\web developement(html.css.is)\merge sort.c

```
"C:\web developement(html.css.js)\merge sort.exe"
Enter number of elements in the array:
Enter 6 integers
5 3 4 8 9 2
Printing the sorted array:
                                  8
                                           9
        3
EXECUTION TIME : 0.0000000000seconds
Process returned 0 (0x0) execution time : 10.849 s
Press any key to continue.
```



Untitled spreadsheet ☆ 🖼 🛇