Tarea 6
DIVIDE Y VENCERÁS,
MERGE SORT

Diseño y Análisis de Algoritmos
Universidad Nacional Autónoma de México
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REALIZADO POR:

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```python
def merge_sort(arr):  3 usages  new *
    if len(arr) > 1:
        mid = len(arr) // 2
        left = arr[:mid]
        right = arr[mid:]
        merge_sort(left)
        merge_sort(right)
        i = j = k = 0
        while i < len(left) and j < len(right):
            if left[i] <= right[j]:
                arr[k] = left[i]
                i += 1
            else:
                arr[k] = right[j]
                j += 1
            k += 1
        while i < len(left):
            arr[k] = left[i]
            i += 1
            k += 1

        while j < len(right):
            arr[k] = right[j]
            j += 1
            k += 1

arreglo = [25, 255, 16, 17, 256, 14, 2, 87, 35, 23]
```

Ejecución

```
C:\Users\milok\PycharmProjects\DAA2026-1\.venv\Scripts\python.exe
[2, 14, 16, 17, 23, 25, 35, 87, 255, 256]
```