## Tarea 12 MERGE SORT

Estructura de Datos Universidad Nacional Autónoma de México Facultad de Estudios Superiores Aragón

REALIZADO POR:

Enrique Emiliano Cano García

## Merge sort

```
if len(data) > 1:
   mid = len(data) // 2
   izq = data[0:mid:1]
   der = data[mid::]
  print(f"{izq} --- {der}")
   merge_sort(izg)
   merge_sort(der)
   while i < len(izq) and d < len(der):
       if izq[i] < der[d]:</pre>
           data[k] = izq[i]
           data[k] = der[d]
   while i < len(izq):
       data[k] = izq[i]
       k += 1
    while d < len(der):
       data[k] = der[d]
       k += 1
print(f"Regreso de rec: {data}")
return data
```

## Ejecución

```
Regreso de rec: [27, 34]
Regreso de rec: [27, 34, 45]
Regreso de rec: [8, 17, 27, 34, 45, 89]
[899, 962, 35] --- [14, 2, 46]
[899] --- [962, 35]
Regreso de rec: [899]
[962] --- [35]
Regreso de rec: [962]
Regreso de rec: [35]
Regreso de rec: [35, 962]
Regreso de rec: [35, 899, 962]
[14] --- [2, 46]
Regreso de rec: [14]
[2] --- [46]
Regreso de rec: [2]
Regreso de rec: [46]
Regreso de rec: [2, 46]
Regreso de rec: [2, 14, 46]
Regreso de rec: [2, 14, 35, 46, 899, 962]
Regreso de rec: [2, 8, 14, 17, 27, 34, 35, 45, 46, 89, 899, 962]
[2, 8, 14, 17, 27, 34, 35, 45, 46, 89, 899, 962]
```