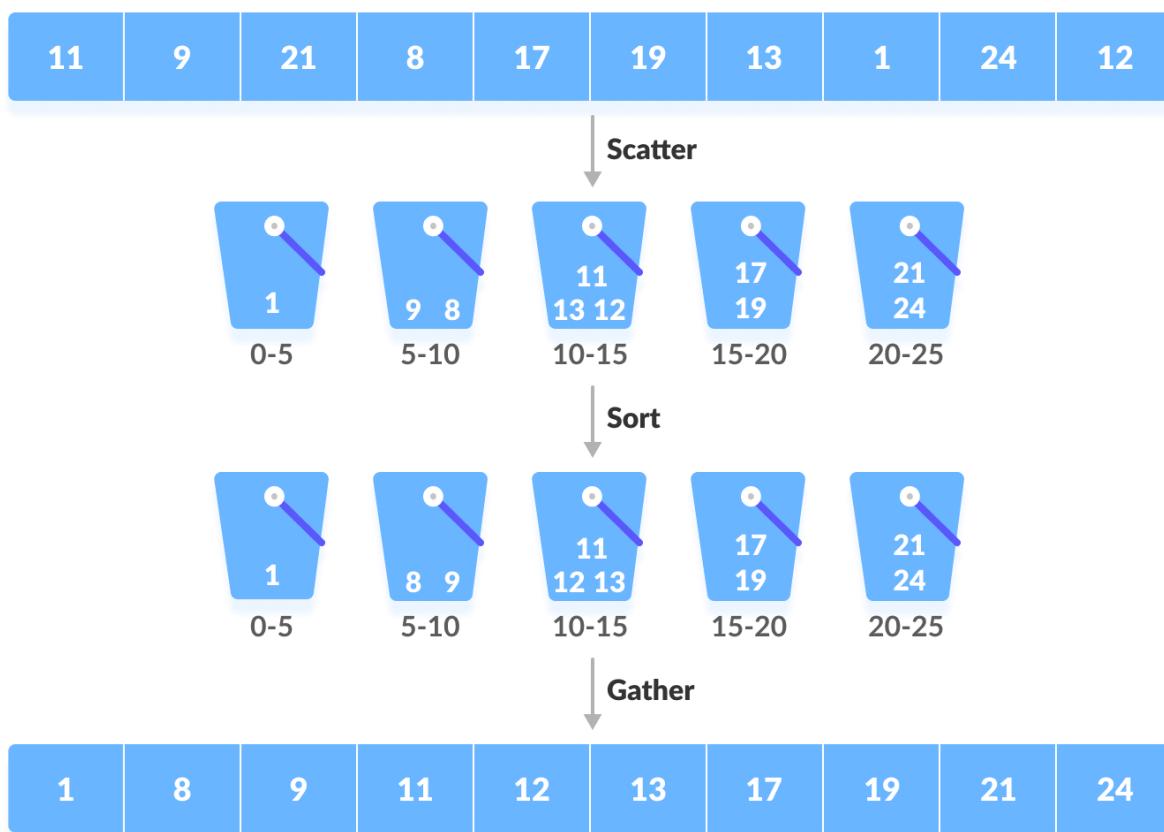


## Bucket Sort

Bucket Sort is a sorting technique that sorts the elements by first dividing the elements into several groups called **buckets**. The elements inside each **bucket** are sorted using any of the suitable sorting algorithms or recursively calling the same algorithm.

Several buckets are created. Each bucket is filled with a specific range of elements. The elements inside the bucket are sorted using any other algorithm. Finally, the elements of the bucket are gathered to get the sorted array.



### Application

Bucket sort is used when:

- i. Input is uniformly distributed over a range.
- ii. There are floating point values.