

Kth Percentile

The basic algorithm behind this program is QuickSelect, where the kth smallest element is found without sorting the list.

Task 1: Map

Here all the input are read and key-value pairs are formed, where key of all the number is same.

Task 2: GroupBy

All the key value pairs are then grouped together by same key and the list of all the numbers are formed.

Task 3: Reduce

Quickselect algorithm is implemented in this phase to find the kth percentile for all values of K i.e. 25,50,75.