SORTER(Bins_queue)

Input: $\text{Bins\_queue}$ — queue of bins

1. while (bin_id, bin_data $\leftarrow$ Bins_queue.pop()) not empty and not Bins_queue.finished() do
2.   if bin_data not empty then
3.     Uncompact k-mers in bin_data
4.     Sort uncompact k-mers
5.     Merge identical k-mers removing the ones with to low or to high (out of thresholds) counter values
6.     Create the buffers for save as the results
7.     Put the (two) buffers ready to save to output file to Sorted_and_compacted_bins_priority_queue