SPLITTER(FASTQ-parts_queue)

Input: FASTQ-parts_queue — queue with parts of FASTQ/FASTA files

1. while (block ← FASTQ-parts_queue.pop()) not empty and not FASTQ-parts_queue.finished() do
   2.     if block not empty then
       3.         for all read in block do
       4.             for all valid indices i in read do
       5.                 Compute canonical k-mer m (optionally with quality-based counter for Quake’s mode)
       6.                 bin_id ← prefix(m, p₁)
       7.                 bin[bin_id].push(m without prefix)
       8.                 if bin[bin_id] is full then
               9.                     Compact bin[bin_id] by sorting on p₂ symbols
               10.                    Bin-parts_queue.push(bin_id, compacted bin[bin_id])
               11.                    Empty bin[bin_id]
       12.             for all valid indices i in bin do
               13.                     Compact bin[i] by sorting on p₂ symbols
               14.                     Bin-parts_queue.push(i, compacted bin[i])
               15.                     Empty bin[i]