SIMD + Single thread
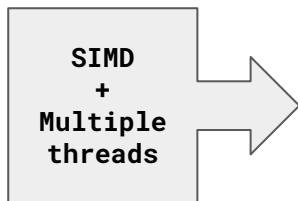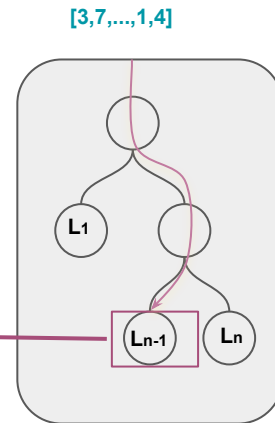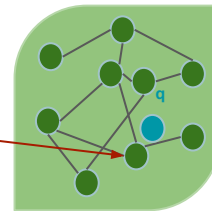
1. Query q arrive.

2. Find $leaf_{apprx}$.

3. Search $leaf_{apprx}$: get approximate candidate list and **bsf**.

4. Build the CL list based on the current **bsf** and create nworker threads.

[3,7,...,1,4]

L_1 L_{n-1} L_n

q

SIMD + Multiple threads

5. Warm local priority queue with approximate candidate list:

5.1 if $distance_{lb}(CL[i], q) >$ **bsf** or i == nprobes :
break
5.2 search CL[i].
5.3 if **local_bsf** < **bsf** :
bsf = **local_bsf**

6. Aggregate the results and return **the final answer**.