Bucket Sort

4. Bucket Sort

- **Why Important**: Bucket Sort works well when the data is uniformly distributed and falls within a known range.
- **Where It’s Useful**:
  - **Depth Sorting**: Sort objects by their Z-depth for transparency.
  - **Light Probes or Particles**: Sorting objects into spatial buckets for rendering optimizations.
  - Sorting **textures or UV coordinates** into regions when packing atlases.

Why Bucket Sort?:

- Very fast **O(N)** sorting when data can be grouped into buckets (common in spatial optimizations).

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