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English

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1

The diagram illustrates the recursive splitting phase of merge sort. It starts with a single array of 8 elements, which is split into two arrays of 4. These are further split into four arrays of 2, and finally into eight arrays of 1. The sequence is represented by a series of boxes connected by arrows: [8] → [4] → [2] → [1] → [1] → [2] → [2] → [4] → [4] → [8].

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The diagram illustrates the sequence of operations for the merge sort algorithm. It starts with a single array of 8 elements, which is split into two arrays of 4 elements each. These two arrays are then sorted individually. Finally, the two sorted arrays are merged back together to form a single sorted array of 8 elements.

The diagram shows a transition from a 1D lattice to a 2D lattice. On the left, there is a horizontal row of 8 vertical lines representing a 1D lattice. An arrow points to the right, where there is a 2D lattice represented by two rows of 8 vertical lines each, forming a rectangular grid.

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