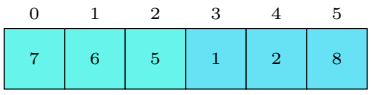
1 Merge Sort Visualization

Introduction

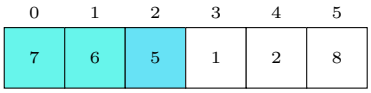
Merge sort is one of the most efficient sorting algorithms. It works on the principle of Divide and Conquer based on the idea of breaking down a list into several sub-lists until each sublist consists of a single element and merging those sublists in a manner that results into a sorted list.

2 Division Steps

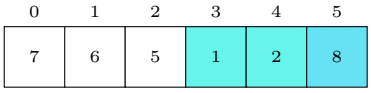
Split [0, 5]



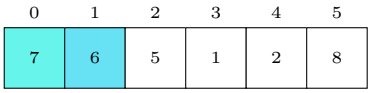
Split [0, 2]



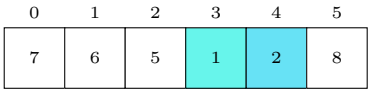
Split [3, 5]



Split [0, 1]

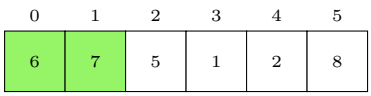


Split [3, 4]

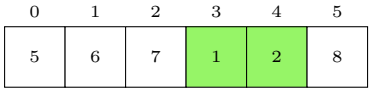


3 Merge Steps

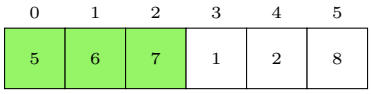
Merge [0, 1]



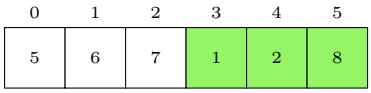
Merge [3, 4]



Merge [0, 2]



Merge [3, 5]



Merge [0, 5]