We chop the array in half until each number is in its own array

[7, 3, 1, 8, 5, 4, 2, 6] [7] [3] [1] [8] [5] [4] [2] [6] [7] [3] [1] [8] [5] [4] [2] [6]

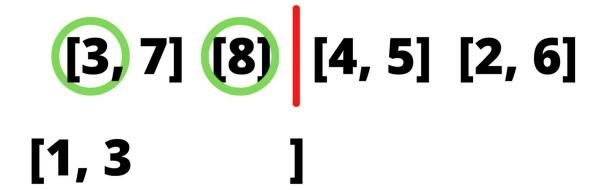
We compare two at a time between the first element of the left and right array. Whichever number is greater will be appended to the new array

[3, 7] [1, 8] [4, 5] [2, 6]

(3) 7] (1) 8] [4, 5] [2, 6]
[1,]

We continue to do this process of comparing the first index of each array.

The lower number will be removed then be appended to the new array



(7) (8) [4, 5] [2, 6] [1, 3, 7] [](8) [4, 5] [2, 6] [1, 3, 7, 8] When comparing the array to an empty one just append the rest of the array.

[1, 3, 7, 8] [2, 4, 5, 6]

Did it for the right hand side and resulted into this.

We then continue to do the process of merging the array again.



[1, 2, 3, 4, 5, 6,]

We eventually get down to this comparing a fill array to an empty one where we will again just simply append the rest of the array [1, 2, 3, 4, 5, 6, 7, 8]