**CS220 – Lesson 8 – Merge Sort Worksheet**

1. Show the first 8 passes of merge sort on the following array: {54,26,93,17,77,31,44,55,20}

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Original | 54 | 26 | 93 | 17 | 77 | 31 | 44 | 55 | 20 |
| 1st Pass |  |  |  |  |  |  |  |  |  |
| 2nd Pass |  |  |  |  |  |  |  |  |  |
| 3rd Pass |  |  |  |  |  |  |  |  |  |
| 4th Pass |  |  |  |  |  |  |  |  |  |
| 5th Pass |  |  |  |  |  |  |  |  |  |
| 6th Pass |  |  |  |  |  |  |  |  |  |
| 7th Pass |  |  |  |  |  |  |  |  |  |
| 8th Pass |  |  |  |  |  |  |  |  |  |