

2/7 Radix Sort

Wednesday, February 7, 2018 5:10 PM

Sort first by ones digit

Sort second by tens digit (values with equal digits
maintain respective ordering)
repeat for each digit

2		310		002		002
102		110		102		035
135		360		310		102
35		02		110		110
242	⇒	102	⇒	135	⇒	135
310		242		035		242
110		135		242		310
465		35		360		360
365		465		465		365
360		365		365		465

runtime $O(wN)$

runtime $O(wN)$

memory $O(\mu + w)$

Has a potentially large runtime constant multiplier
for mod and division operations