- Show that any comparison-based algorithm to sort 4 elements requires at least 5 comparisons in the worst case.
- 2. Explain how Radix Sort can be used to sort the following $S=\{125,27,729,1,27,8,64,343,216\}$ using radix = 9.
- Carry out the steps of RadixSort to sort the following {80, 27, 72, 1, 27, 8, 64, 34, 16} Hint: use 9 for your radix.