1. Trace a walkthrough of radix sort with these lists:

a. 5  11  7  3  5  4  7  11  4  9

Original array: [5, 11, 7, 3, 5, 4, 7, 11, 4, 9]  
Sorting [5, 11, 7, 3, 5, 4, 7, 11, 4, 9] on rightmost digit...  
        aux0: []  
        aux1: [11, 11]  
        aux2: []  
        aux3: [3]  
        aux4: [4, 4]  
        aux5: [5, 5]  
        aux6: []  
        aux7: [7, 7]  
        aux8: []  
        aux9: [9]  
Sorting [11, 11, 3, 4, 4, 5, 5, 7, 7, 9] on leftmost digit...  
        aux0: [3, 4, 4, 5, 5, 7, 7, 9]  
        aux1: [11, 11]  
        aux2: []  
        aux3: []  
        aux4: []  
        aux5: []  
        aux6: []  
        aux7: []  
        aux8: []  
        aux9: []  
Sorted array: [3, 4, 4, 5, 5, 7, 7, 9, 11, 11]  
  
b. 9  0  11  10  5  8  9  6  8  7  5

Original array: [9, 0, 11, 10, 5, 8, 9, 6, 8, 7, 5]  
Sorting [9, 0, 11, 10, 5, 8, 9, 6, 8, 7, 5] on rightmost digit...  
        aux0: [0, 10]  
        aux1: [11]  
        aux2: []  
        aux3: []  
        aux4: []  
        aux5: [5, 5]  
        aux6: [6]  
        aux7: [7]  
        aux8: [8, 8]  
        aux9: [9, 9]  
Sorting [0, 10, 11, 5, 5, 6, 7, 8, 8, 9, 9] on leftmost digit...  
        aux0: [0, 5, 5, 6, 7, 8, 8, 9, 9]  
        aux1: [10, 11]  
        aux2: []  
        aux3: []  
        aux4: []  
        aux5: []  
        aux6: []  
        aux7: []  
        aux8: []  
        aux9: []  
Sorted array: [0, 5, 5, 6, 7, 8, 8, 9, 9, 10, 11]