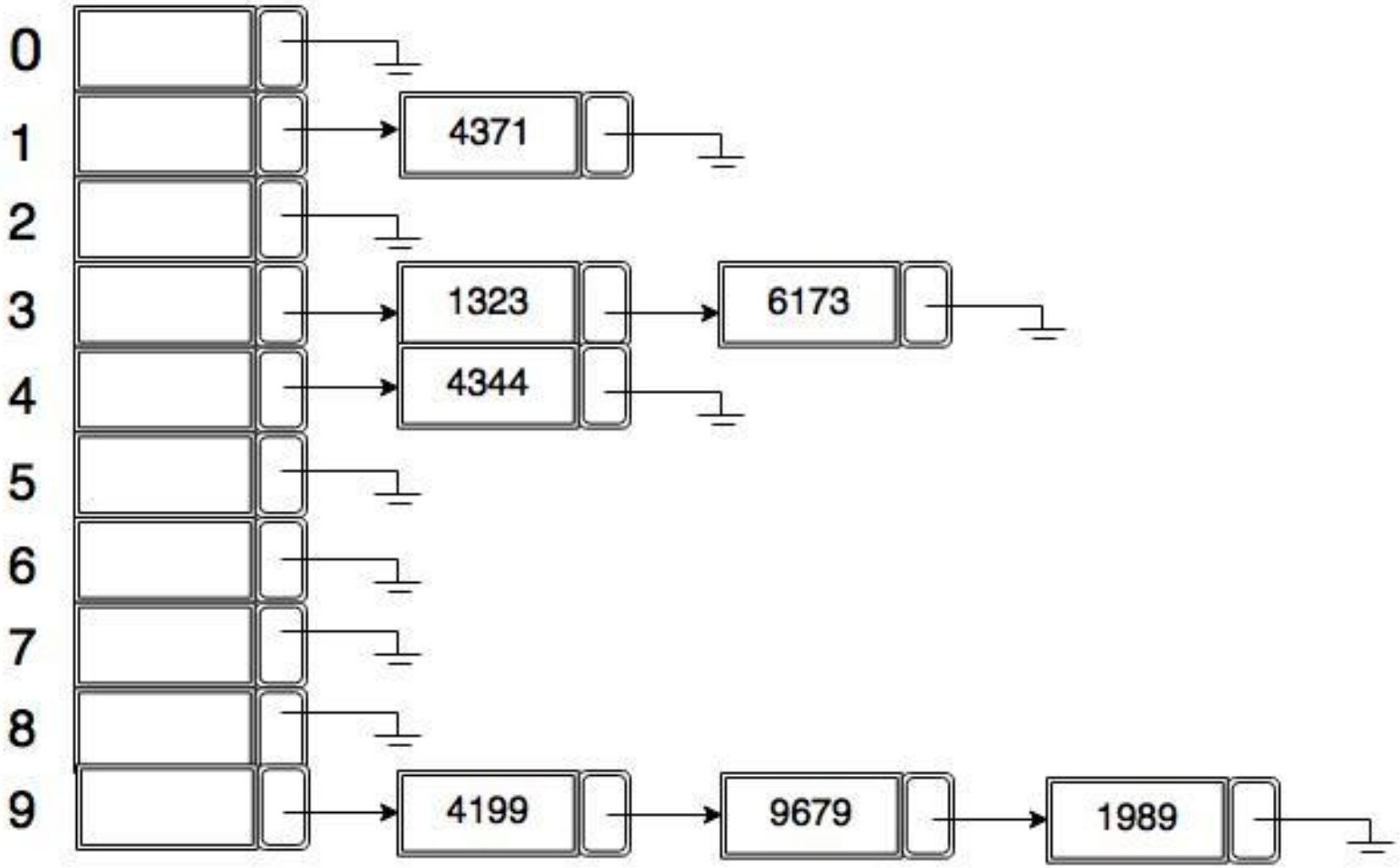
1. Given input {4371, 1323, 6173, 4199, 4344, 9679, 1989} and a hash function h(x) = x (mod () 10), show the result using a separate chaining hash table

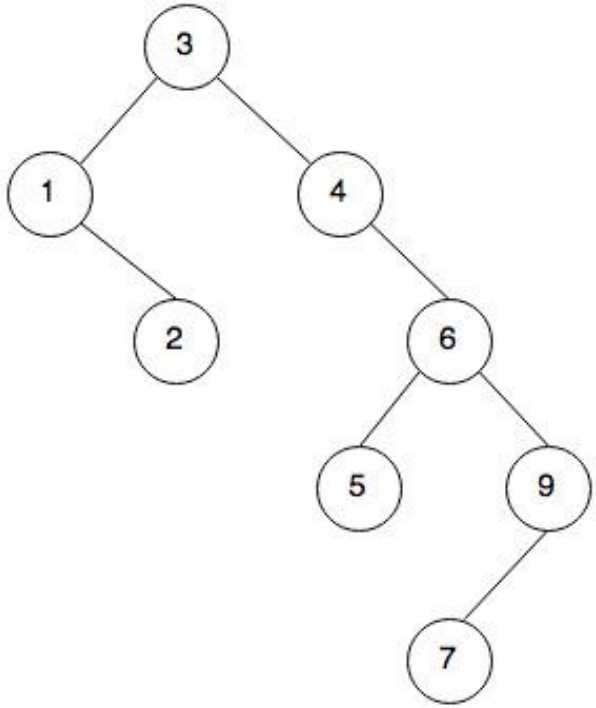
Hash(x) = x mod 10

Input: {4371, 1323, 6173, 4199, 4344, 9679, 1989}

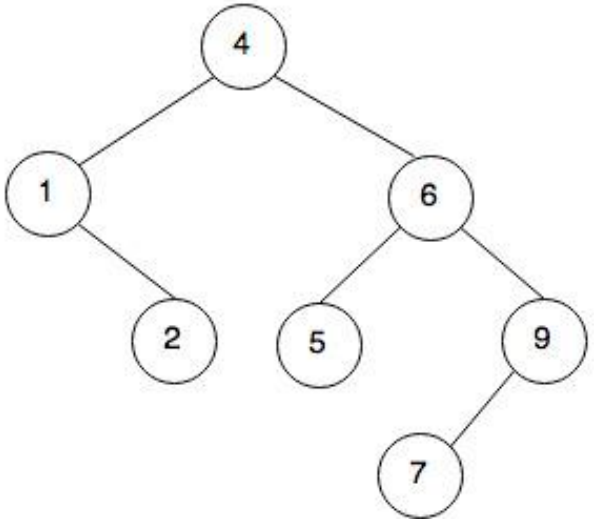
Result: {1, 3, 3, 9, 4, 9, 9}



2. a) Show the result of inserting 3, 1, 4, 6, 9, 2, 5, 7 into an initially empty binary search tree



2. b) Show the result of deleting the root



3. Show the result of inserting 2, 1, 4, 5, 9, 3, 6, 7 into an initially empty AVL tree.