CS62: Spring 2025 | Lecture #20 (Hashtables Pt 1) worksheet | Jingyi Li

1. Convert the word "bee" into a number by using our "powers of 27" strategy. That is, hash "bee". Reminder: $cat_{27} = (3 \times 27^2) + (1 \times 27^1) + (20 \times 27^0) = 2234_{10}$

2. Insert the key-value pairs (47, 0), (3, 1), (28, 2), (14, 3), (9,4), (47,5) into a separate chaining hash table of size m = 7. Assume the hash function is calculated as key % m.

3. Place the existing elements (you can practice drawing ⁽ⁱ⁾) on the new hashtable that has been doubled in size. Assume we are placing items at the end, instead of beginning, of the list. (Hint: how do we reduce hashes to bucket indices? How does that change with resize?)

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