## CS62: Spring 2025 | Lecture #21 (Hashtables Pt 2) worksheet | Jingyi Li

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

2. Suppose we have a separate chaining hash table of ColoredNumbers. The hashCode is the memory location while equals() is overridden to check if the ColoredNumber's num attributes are equal.



ColoredNumber zero = new ColoredNumber(0); hs.add(zero); What can happen when we call hs.add(zero)? A. We add another 0 to bin zero.

- B. We add another 0 to bin 2010.
- C. We add another 0 to some other bin.
- D. We do not get a duplicate zero.

3. Fill in the blanks to implement get() in a separate chaining hash table. You can assume you have access to the hash() method, and an instance variable called table which is an array of Nodes, where Nodes contain a key, value, and next pointer (they are Nodes in a SLL).

