

Hashing (Simulation)

Draw the contents of the hash table given the following conditions:

- The size of the hash table is 10.
- Linear Probing is used to resolve collisions.
- The hash function $H(k)$ should be calculated in the following way where k is the element to be hashed:

$R(k) = (\text{summation of the digits in } k) \bmod (10)$

If $R(k) < 8$

$H(k) = R(k) + 6$

else

$H(k) = R(k) - 2$

What values will be in the hash table after the following sequence of insertions?

s3x5, 1aa8, 8bg, 1aw3, 2131, ft249, 1gfg6, 2po7

[Note: Draw the values using a hash table and show your work for partial credit.]