

Homework 9

1 Question 1

Explain how deletion is performed in both probing and separate chaining hash tables.

2 Question 2

Given the input 4371, 1323, 6173, 4199, 4344, 9679, 1989, a fixed table size of 10, and a hash function $H(X) = X \bmod 10$, show the resulting

1. Linear probing hash table
2. Quadratic probing hash table
3. Separate chaining hash table

3 Question 3

Show the result of rehashing the probing tables in Question 2. Rehash to a prime table size.