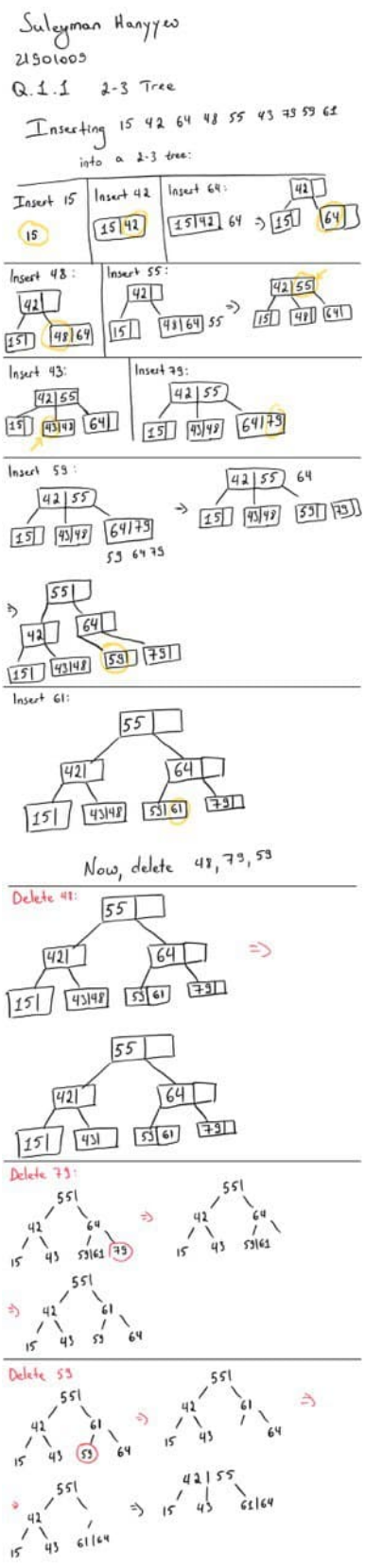
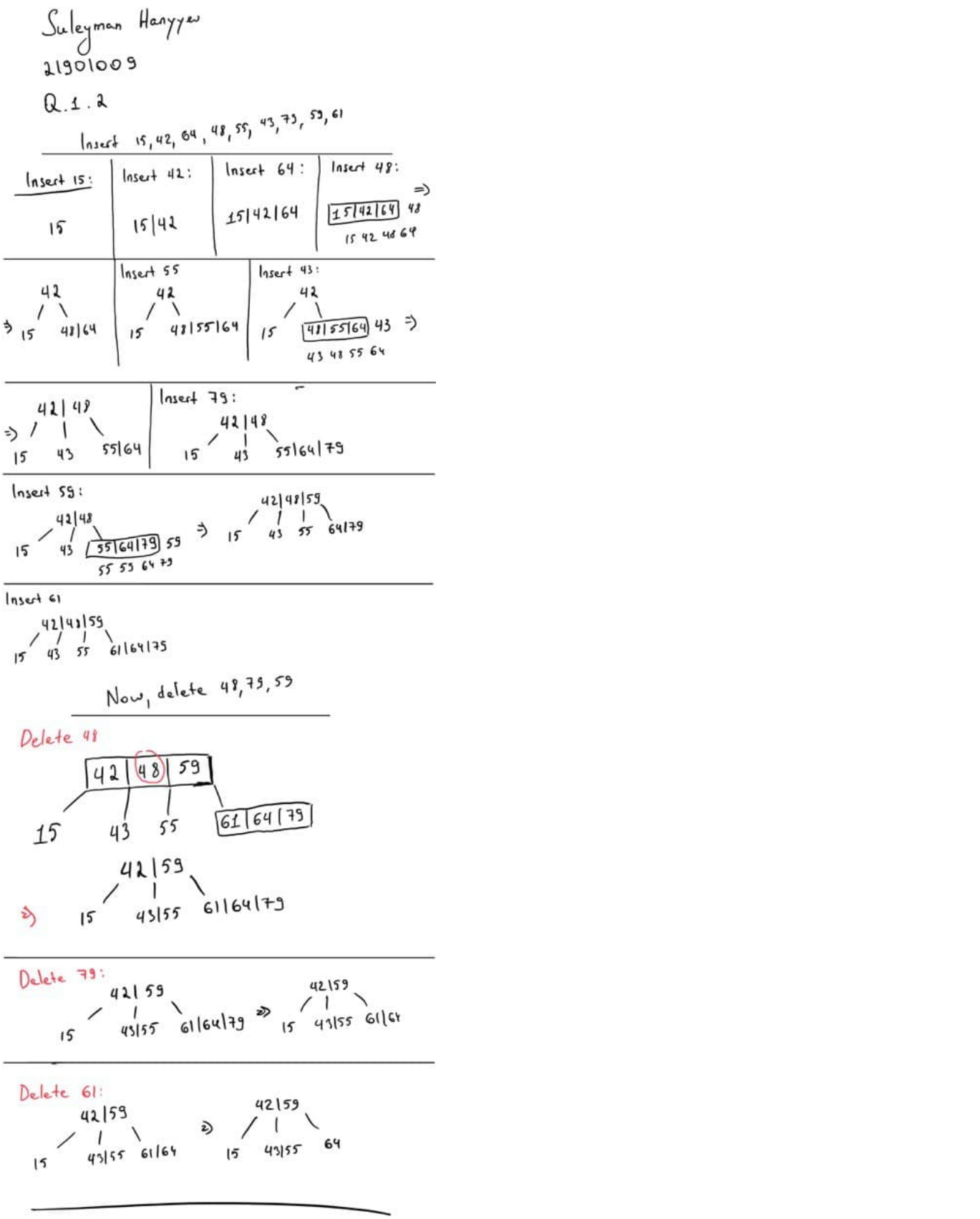
Title: Balanced Search Trees, Hashing and Graphs
Author: Suleyman Hanyyev
ID: 21901009
Section: 1
Assignment: 4
Description: PDF with answers for Q1 and Q2

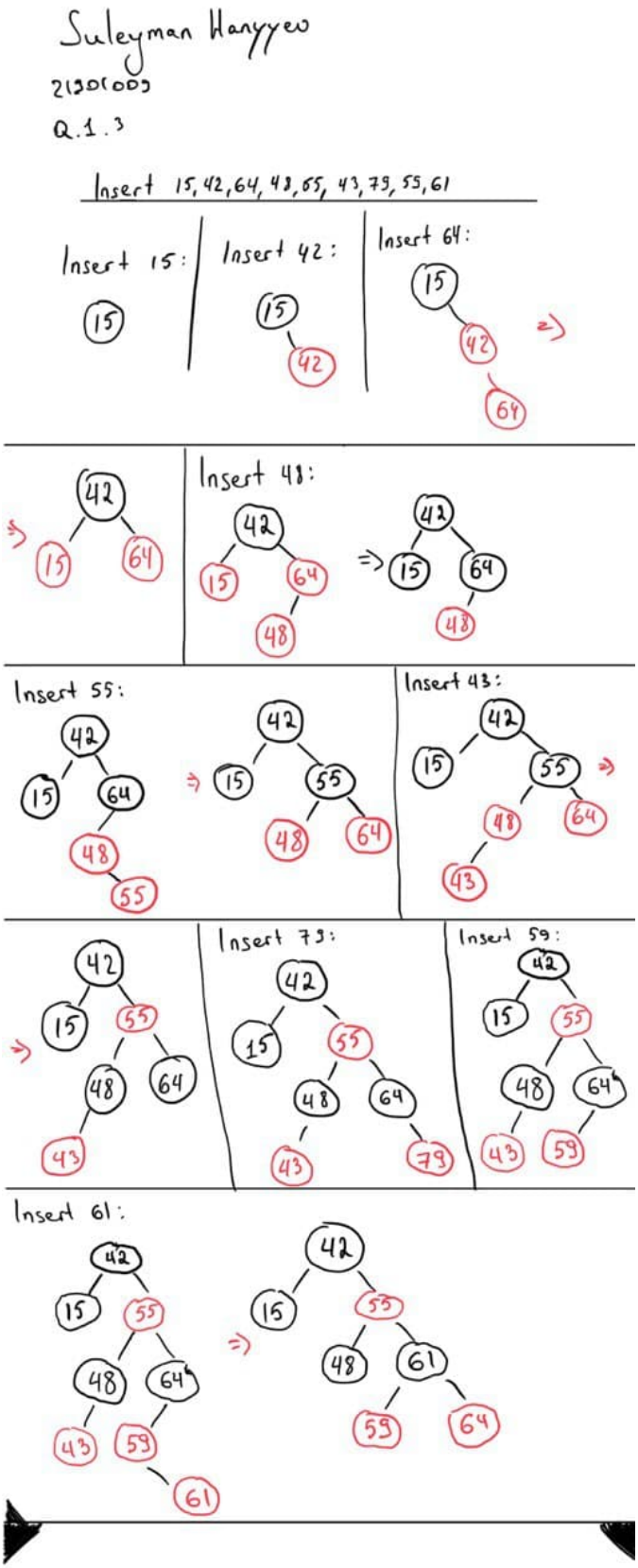
Q1, part 1:
2-3 tree



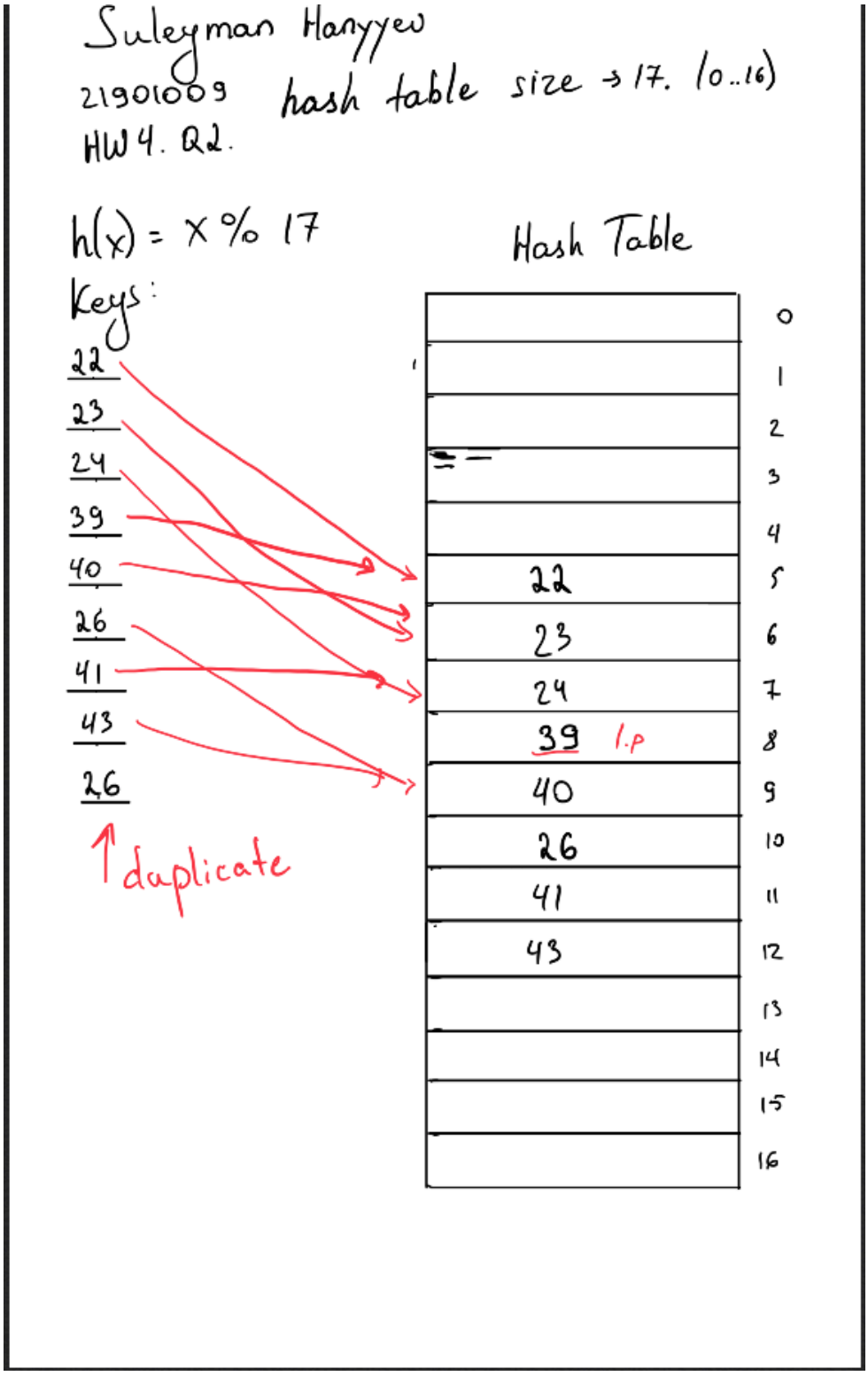
Q1, part 2:
2-3-4 tree:



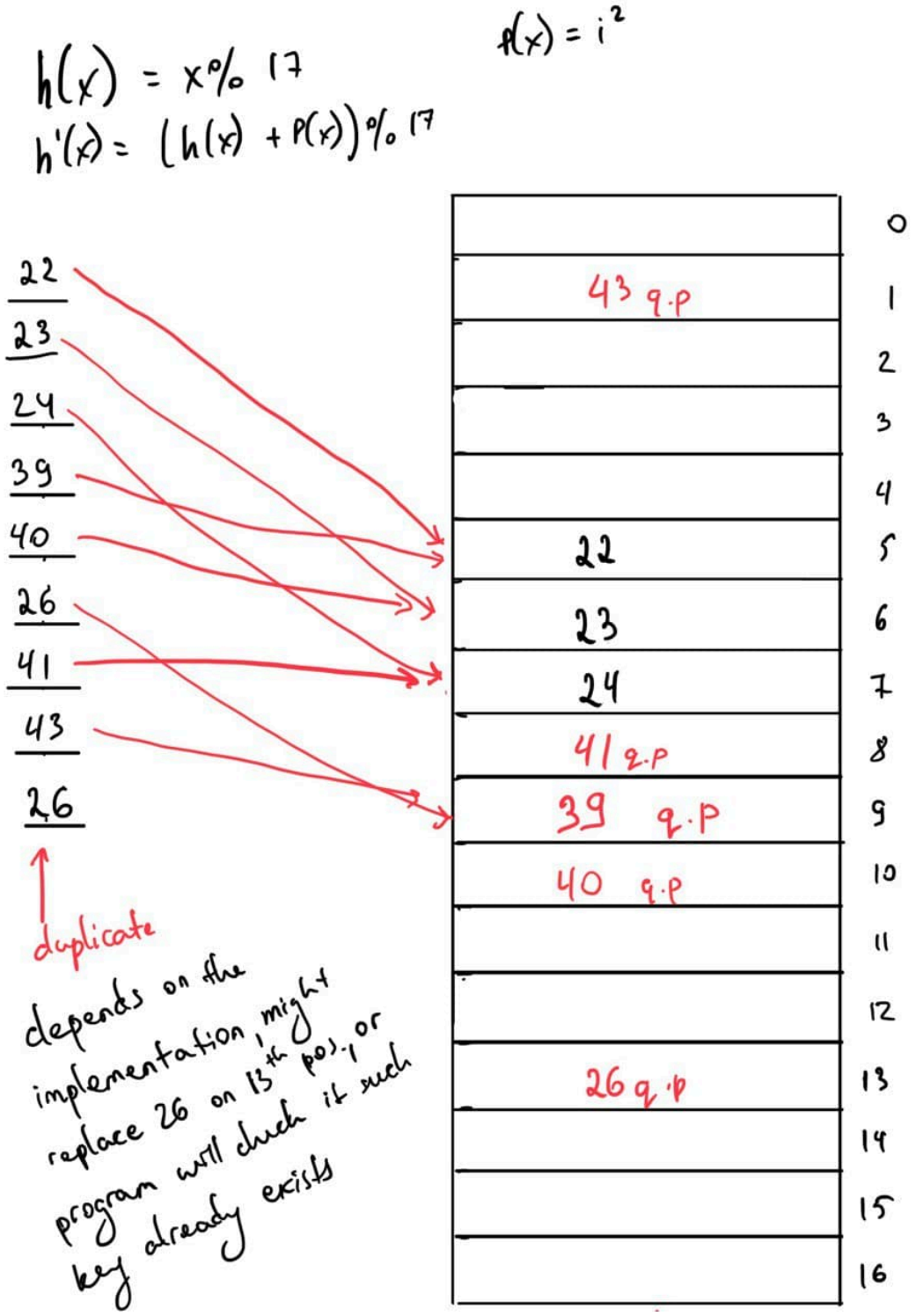
Q1, part 3
Red-Black tree:



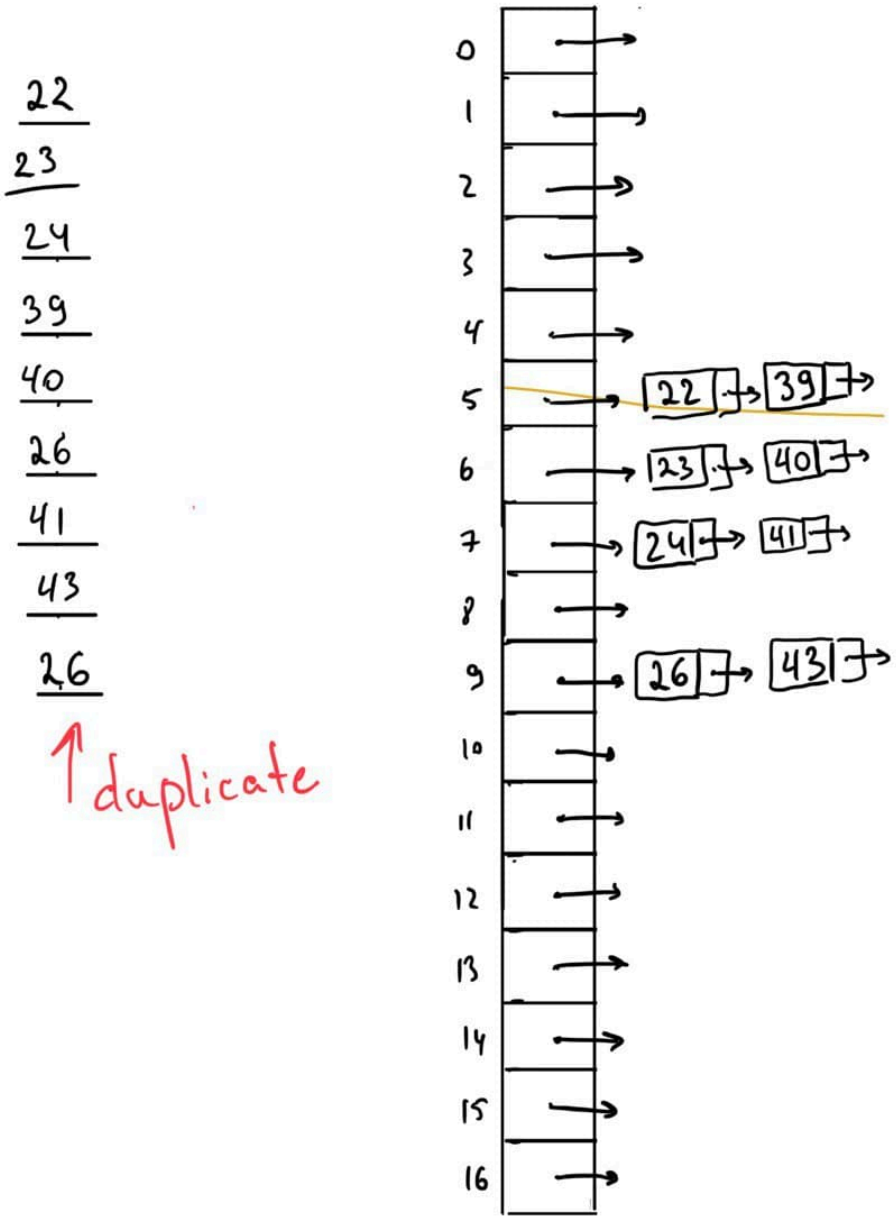
Q2, part 1:
Linear Probing:



Q2, part 2:
Quadratic probing:



Q2, part 3:
Separate Chaining:



Lastly, I wanted to elaborate:

l.p -> linear probing
q.p -> quadratic probing

Also, in my representation of q2 I just mentioned that 26 is a duplicate. There are two ways to deal with it and it depends on the coder: either checking if such number exists, or overwriting the old