

ICCS315: Assignment 1

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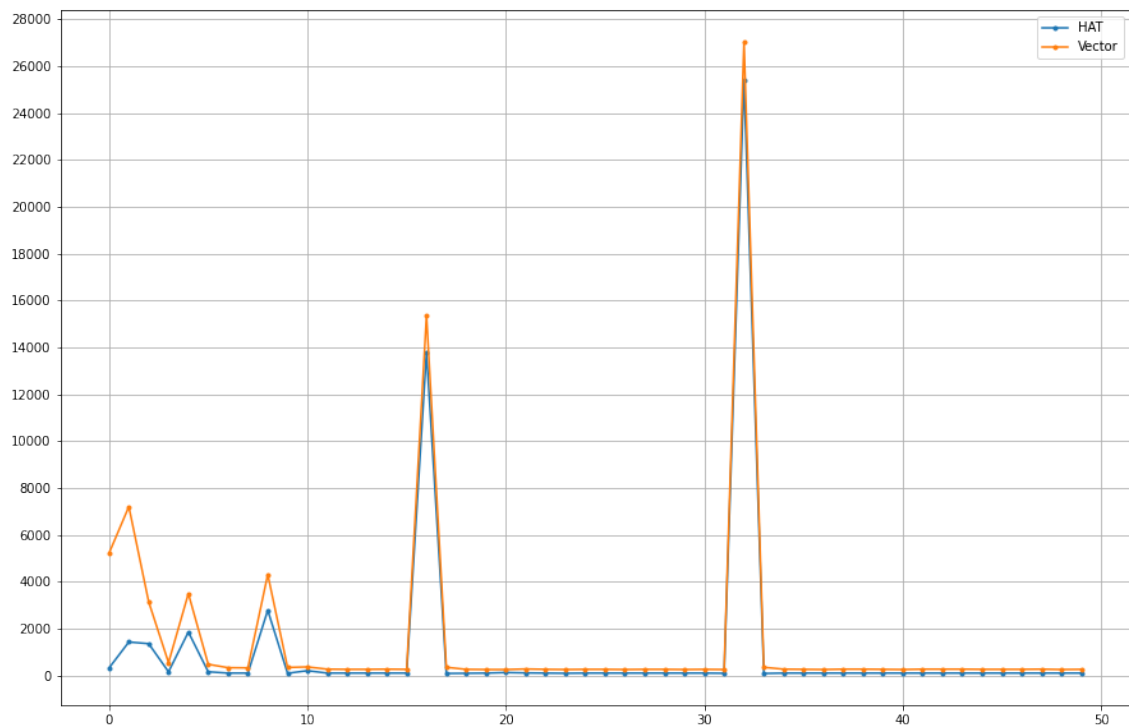
30/01/2023

1: *Resizable Arrays*

(a) Append Latency

HAT ≈ 96 cycles

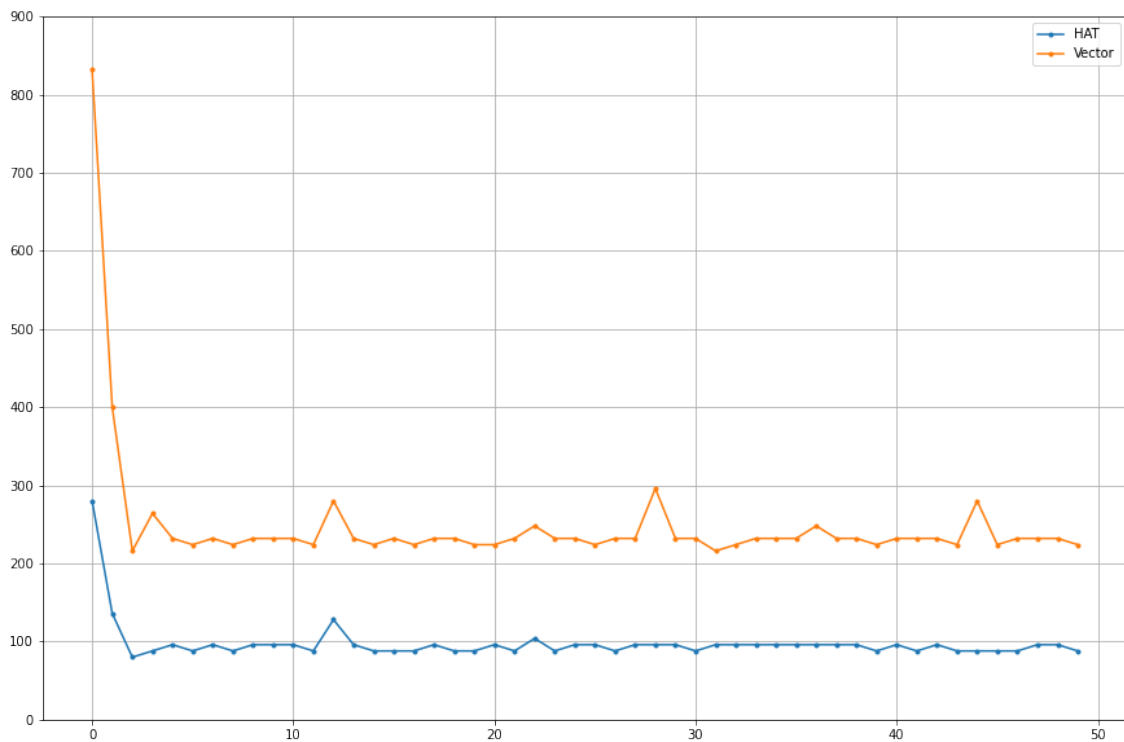
Vector ≈ 260 cycles



(b) Access Latency

HAT ≈ 96 cycles

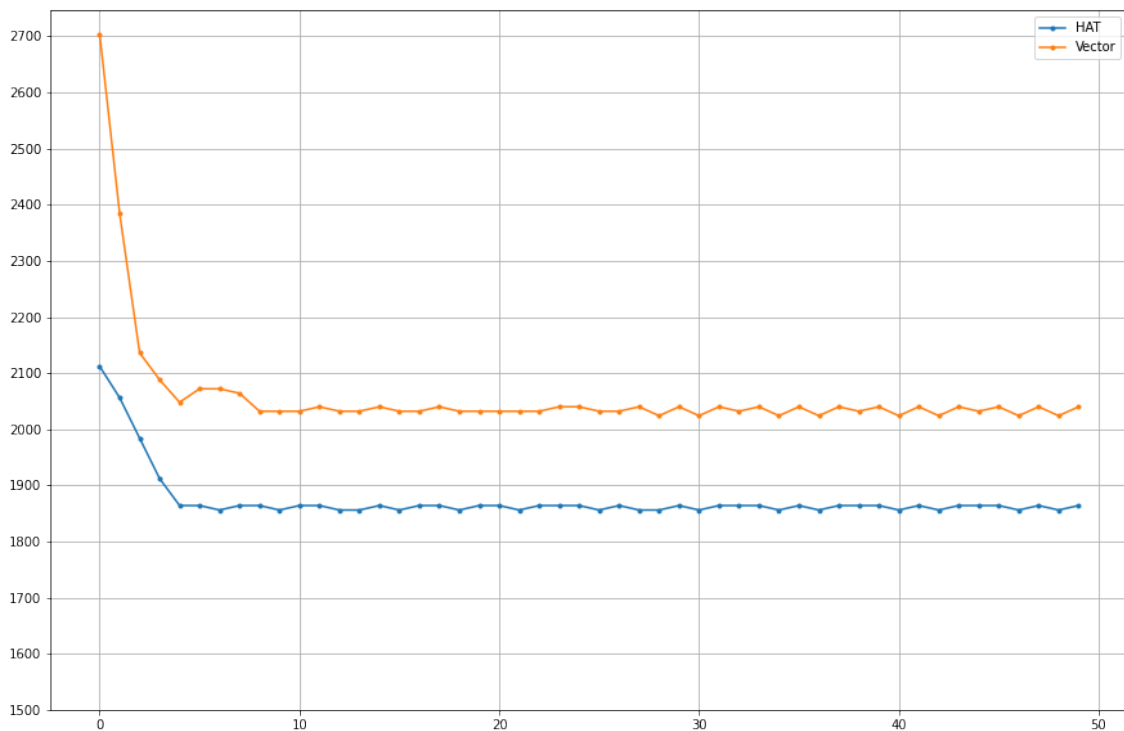
Vector ≈ 232 cycles



(c) Scan Latency

HAT ≈ 1864 cycles

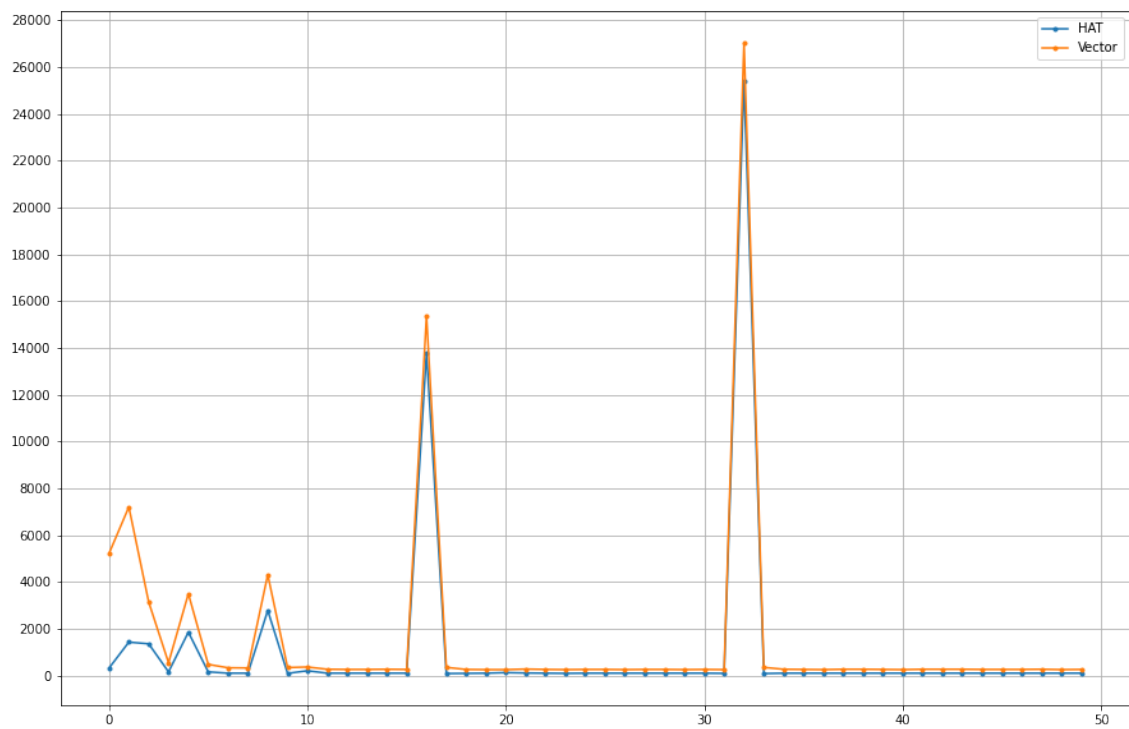
Vector ≈ 2036 cycles



(d) Overall Latency

HAT ≈ 96 cycles

Vector ≈ 264 cycles



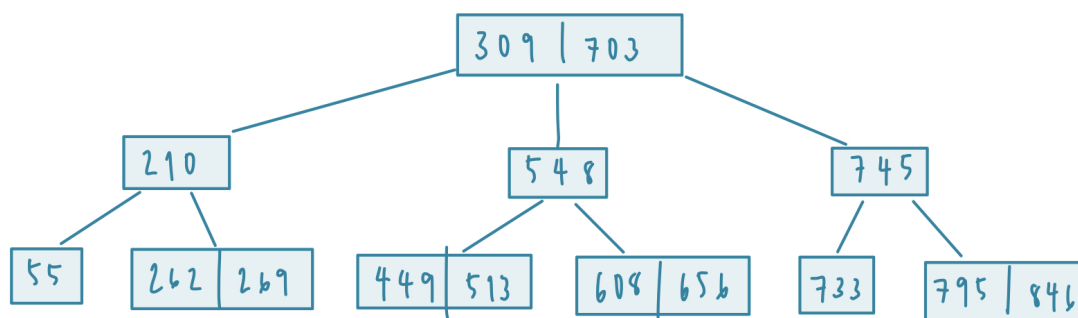
3: Skip Lists

(a)

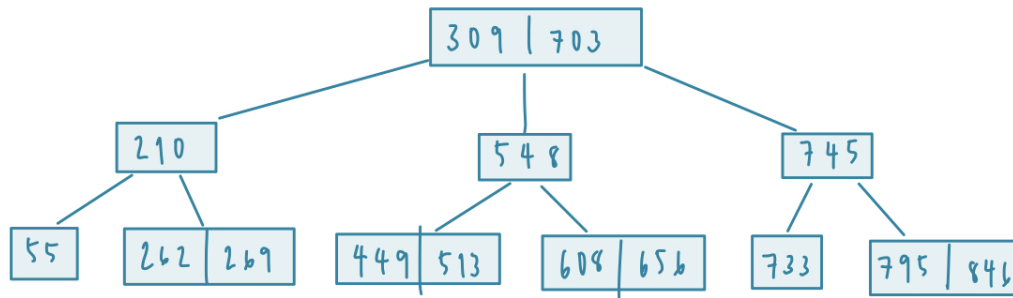
(b)

4: (a, b) tree

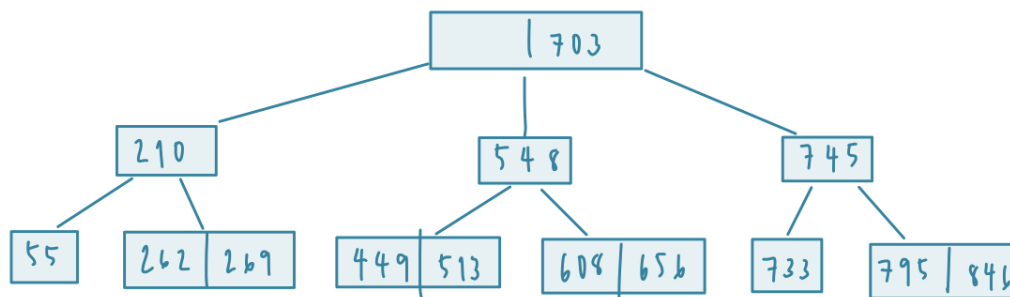
(a)



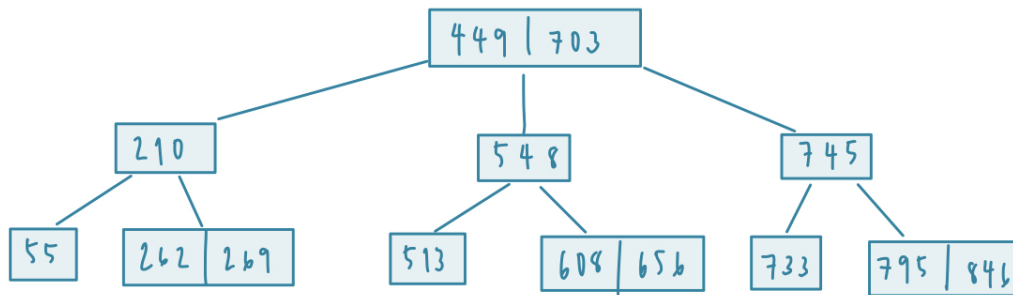
(b)



↓ delete 309



↓ replace with
successor



4: B-Tree Speed
