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CH-1

$$1.1) \log_2(128) = 7$$

$$1.2) \log_2(2 \times 128) = 8$$

$$1.3) O(\log n)$$

$$1.4) O(n)$$

$$1.5) O(n)$$

$$1.6) O(n)$$

CH-2

2.1) Linked list (because lot of inserts & few reads)

2.2) Linked List (lot of inserts & delete)

2.3) array (random access)

2.4) 1) insert in array → Slow

•) every time you add new name, you should sort array again

Binary search → should be sorted.

2.5)

searching → slower than array

↳ Faster than linked List

Inserting → faster than array

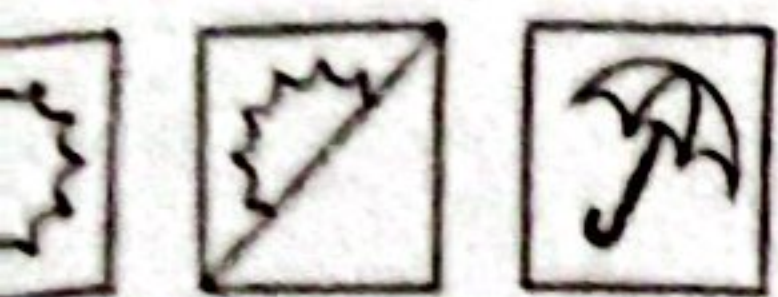
↳ slower than linked List

CH-3

3.1) We have 2 call Function

GREET call first then GREET 2

call inside it.



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3-2) Stack overflow occurs