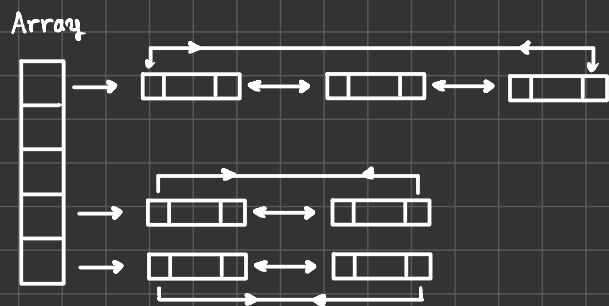


Hash Table

Seperate Chaining

♥ Each array stores linked list



Data is hashed and store in front of the linked list

∴ Data that is just inserted is likely to be recalled

Open Addressing

♥ Deal with collision of data

Equation for indexing

$$h_i(x) = (\text{hash}(x) + f(i)) \% \text{array size}$$

Lazy deletion

Problem:

Searching will end prematurely when the algorithm finds an empty slot

solution:

Insert DL object so that the algorithm continues

- I Linear Probing $f(i) = i$
- II Quadratic Probing $f(i) = i^2$
- III Double Hashing $f(i) = i \text{ hash}_2(x)$