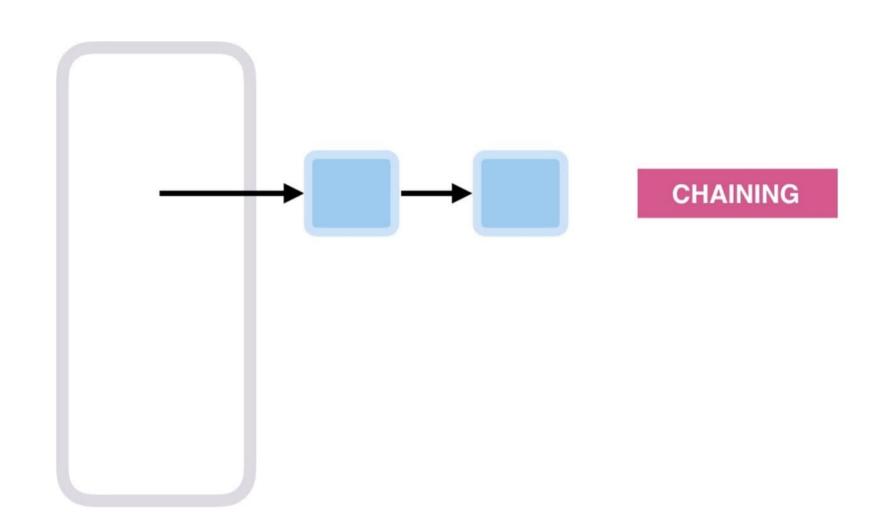
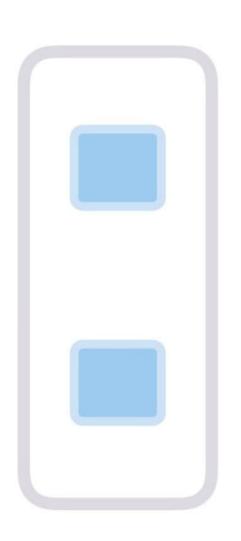
Collisions



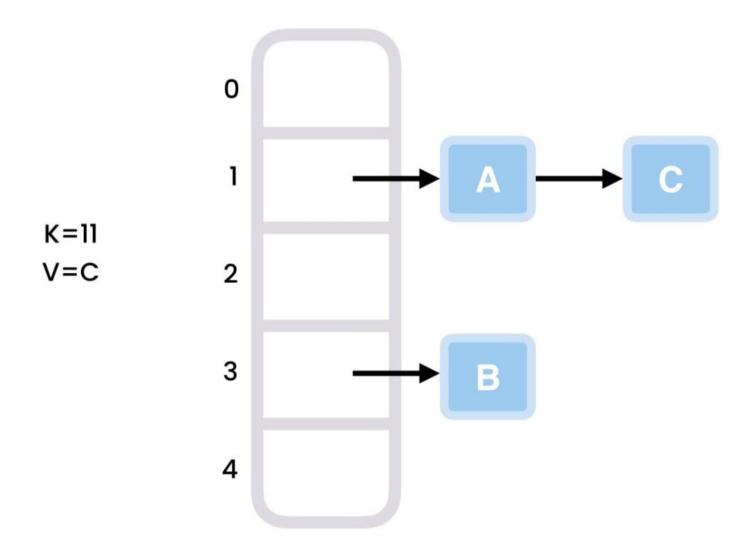




OPEN ADDRESSING

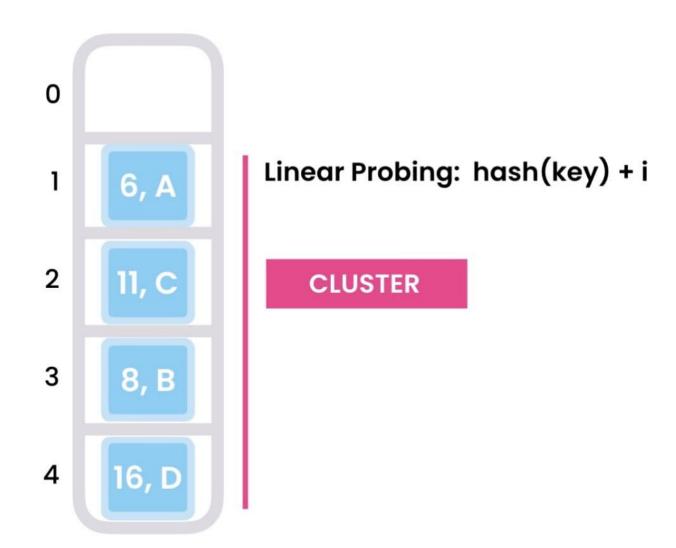
Chaining





Linear Probing





Quadratic Probing



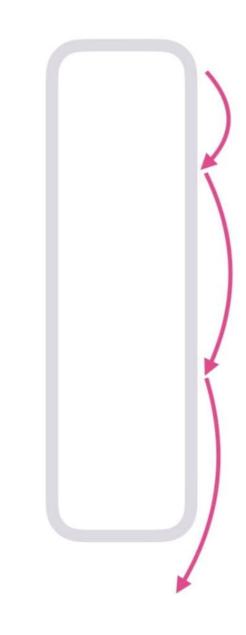
Linear

hash(key) + i

Quadratic

hash(key) + i²

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Double Hashing



Double Hashing

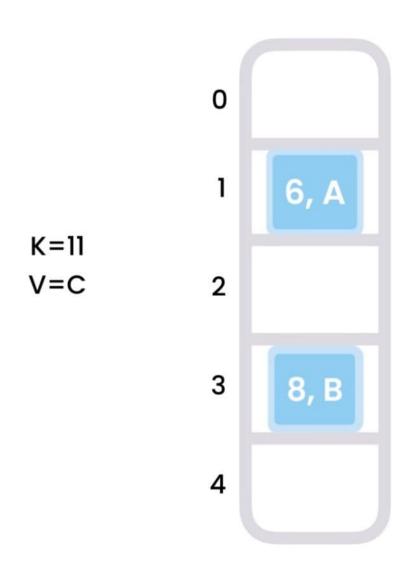
```
hash2(key) = prime - (key % prime)
```

(hash1(key) + i * hash2(key)) % table_size

Linear: i

Quadratic: i

Double: i * hash2



hash1(key) = key % table_size

hash2(key) = 3 - (key % 3)

index = (hash1 + i*hash2) % size