1. LRU:

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1. Using LinkedHashMap (Simplest in Java)
LinkedHashMap has a constructor that supports access-order, which is perfect for LRU.
                                                                                    Copy code
  int capacity = 3;
 LinkedHashMap<>Integer, String> lruCache = new LinkedHashMap<>(capacity, 0.75f, true) {
      @Override
      protected boolean removeEldestEntry(Map.Entry<Integer, String> eldest) {
          return size() > capacity; // remove LRU when cache exceeds capacity
  };
How it works:
1. Access order (true):
     • Any get() or put() moves the entry to the end of the linked list (most recently used).
2. removeEldestEntry():
     · Automatically removes the first entry (least recently used) when the cache exceeds capacity.
3. Iteration:
     · Follows LRU order (from least to most recently used).
2. Using HashMap + Doubly Linked List (Manual Implementation)
If you want full control:

    HashMap: Maps key → Node (for O(1) lookup)

 · Doubly Linked List: Maintains usage order
     • Head → Most recently used
     . Tail → Least recently used
```

- 2. LinkedHashMap: Double-linked List + HashMap
- 3. PriorityQueue: Heap