

# Chapter 3: Data Structures

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# 1 Elementary Data Structures

## 1.1 Stacks and Queues

Stacks and queues are dynamic sets in which the element removed from the set by the “Delete” operation is prespecified. Stacks follow the *last-in, first-out* or *LIFO* policy and the queues follow the *first-in, first-out* policy.

### 1.1.1 Stacks

The INSERT operation on a stack is often called PUSH, and the DELETE is called POP (allusions to physical stacks).

Skipped...

### 1.1.2 Queues

The INSERT operation is called ENQUEUE and the DELETE is called DEQUEUE. The queue has a *head* and a *tail*.

Skipped...

### 1.1.3 Lots of Skipping ...

## 2 Hash Tables