Data structure

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1. Linked List.

Node

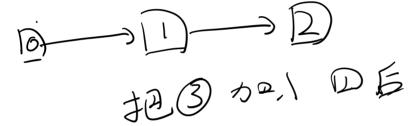


> pointer to next.

Head Node

, v-

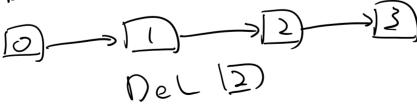
a) Insert.



1. D-3

2. 1) -> [3] -> [2]

b) Del



1)-3

D. next = D. next.next.

7. Double.



2. Stack. Last In First Out

push ();

3. Queue: First In First Out

 $\rightarrow DDD \overline{D}$

queue(): push(): dequeue(): pop():

4 BST.

Search an item in a list) . - - ((00) Roof level learf DFS. BFS

recursion

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Factoral:

3!=3x2 x 1 10 1 = (0× ··· × 1.

Def fac (n):

if n==1: return 1=) 首先 Base.

relse: return. n × fac(n-1)

 $0 \quad 3 \quad \times \quad fac(2)$ $0 \quad 2 \quad \times \quad fac(1)$

3×2×1 = 6. 不一定好. 简单

Fibonacci:

0, 5, 5, 8...

Fo=0, Fi=1, Fz=1, Fz=2...

Def Fib (n): if n = = 0, return 0. else if n = = 1: return 1: else: return f ib (n-2)

n: 4.

(i) fib(3) + fib(2)

Fib(1) + Fib(2) + Fib(2)

Fib(1) + 1 - 3